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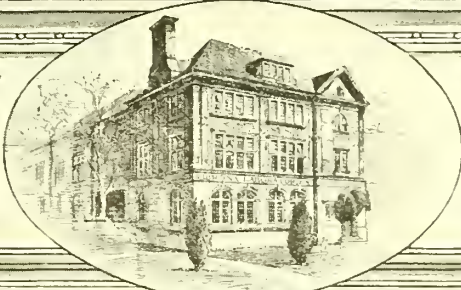
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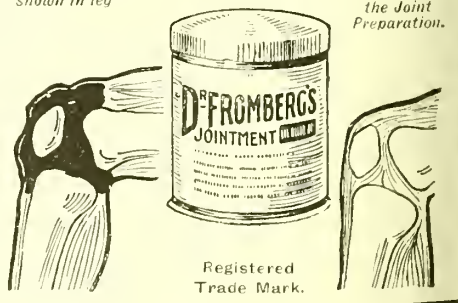
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McCracken, J., & R.
Schutze, F., & Co., Ltd.

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Birmingham & Midland College
Charleston, J.
College of Preceptors
Eli's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
Rance, Miss E.
South of England College
Westminster College

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Ayrton, Saunders & Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
Bristol Myers Co.
British Drug Houses, Ltd., e
Cupal, Ltd.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Kerfoot, Thos., & Co.
Lorimer-Marshall, Ltd.
Shirley Bros., Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

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Millard Bros., Ltd.
Simplex Conduits, Ltd.
Tokalon, Ltd.
Ward & Goldstone
Wright, Archd. J., Ltd.

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Whiffen & Sons, Ltd.

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Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., e
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

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Orme, Evans & Co., Ltd.

END RUNNER MILLS

Hardy Patent Pick Co., Ltd.

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Ingram, J. G., & Son
Warne, W., & Co., Ltd.

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Howards & Sons, Ltd.
May & Baker, Ltd.

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Barnett & Foster
Boake Roberts, A. & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Sinalco Co.
Stevenson & Howell, Ltd.

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Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

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Potter & Clarke, Ltd.

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Gathergood's, Dr. B. W. Exor.
Hewlett, G. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son, Ltd.

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Kay Bros., Ltd.
Pettit, G.

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Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
Fairchild Bros. & Foster
Fletcher, Fletcher & Co., Ltd.
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Horlick's Malted Milk Co.
Lofthouse & Saltner, Ltd.
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Patermann Bros.
Plasmon, Ltd.
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Sister Laura's Infant Food Co.
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Willows, Francis B. & T., Ltd.
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Mumford, G. S., & Sons

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Sleggs & Co.

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Merck, E.

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Perkin & Co., Ltd.

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Hardy Pat. Pick Co., Ltd.

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Kidston, W. M., & Co.

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Knox, Walker, J., & Co., Ltd.

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Blackie, Robert
Edwards' Harlene Co.
Harrison, G. W.
Knoll & Co., Ltd.
Lindner, M.
Osborne, Garrett & Co.
Robare's Aureoline
Sangers
Thompson & Capper, Ltd.
Tokalon, Ltd.

HAND CARTS, TRUCKS, &c.

Crowe & Co.

HAT CLEANERS

Christy, Thos., & Co.
Milner's Chemical Co.

HAT DYES

Whitaker & Co.

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Potter & Clarke, Ltd.

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Keene & Ashwell, Ltd.
Leath & Ross

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Ward & Goldstone

HOTELS

Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES

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Fulham Pottery & Cbeavin
Filter Co., Ltd.

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May & Baker, Ltd.
Sanitas Co., Ltd.

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Knoll & Co., Ltd.
Widenmann, Broicher & Co., Ltd.

HYPOPHOSPHITES

May & Baker, Ltd.
Morson, T., & Son

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Ichthyol Gesellschaft

INK, DICHOIC

Bewley & Draper, Ltd.

INK PAPER

Webster, T., & Co.

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Danzys Virus, Ltd.
Kesting, Thomas

INSECT POWDER

Potter & Clarke, Ltd.
Raimos & Co.

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Cook, E., & Co., Ltd.

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London & Midland Insurance Co., Ltd.

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Burrongs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVERAND OIL

Jackson, John, & Co.

LAVERAND WATER

Ransom, W., & Son, Ltd.

LECITHIN

Bush, W. J., & Co., Ltd.

LIME JUICE AND CORDIAL

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Merck, E.

LIME JUICE AND CORDIAL

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LINSEED, CRUSHED, &c.

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Tilling, Thomas, Ltd.

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Burgoyne, Burbridges & Co.
Drugueries & Hauleries Anver-
soles, Ltd.
Evans Sons Leecher & Webb, Ltd.
Jackson, Ernest, & Co.
Mumford, G. S., & Sons
Solazzi

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May & Baker, Ltd.

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Internl. Sponge Importers, Ltd.
Solport Bros.
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Jackson, Ernest, & Co.
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Raimos & Co.
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Gardner, Wm., & Sons, Ltd.
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Pindar, J. W., & Co.
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Wilkinson, S. W., & Co.

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Henry, T. & W.
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Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., The
Burrongs Wellcome & Co.
Caldar, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Leecher & Webb, Ltd.
Fletcher, Fletcher & Co., Ltd.
Paine & Co., Ltd.
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Patermann Bros.
Saccharin Corporation, Ltd.

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Ward & Goldstone

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Hollandeche Melksuikerfabriek

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Rueff, Julius

MUSTARD SEED OIL

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NAIL POLISH PAPER, &c.

Pharm. Ind. Ges. Offenbach

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Campbell, J. D.

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Boake Roberts, A. & Co., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Leecher & Webb, Ltd.
Jackson, John, & Co.
London Essence Co.
Lueders, George, & Co.
Poppelentor, W.
Ransom, W., & Son, Ltd.
Schimmel & Co.
Stevenson & Howell, Ltd.

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Price's Patent Candle Co., Ltd.

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Burgees, F.

OLDFIELD, PATTINSON & CO.

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Price's Patent Candle Co., Ltd.

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College of Optics

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Givaudan, L.

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Lilywhite, Ltd.

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Price's Patent Candle Co., Ltd.

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Blyton, Astley & Co.
Burrongs Wellcome & Co.

Evans Sons Leecher & Webb, Ltd.
Guest, Thos., & Co.

Kerfoot, Thomas, & Co.
Warriek Bros., Ltd.

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Raworth, John E.

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Dodge & Oleott Co.
Jackson, John, & Co.
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Kerfoot, T., & Co.
Laessle, George, & Co.
Nael, M., & Co., Succrs.
Schimmel & Co.
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PERLES

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Merek, E.

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May & Baker, Ltd.

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Beiersdorf, P., & Co.
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Blyton, Astley & Co.
Dalmas, A. de St., & Co.
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Ward & Goldstone

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Hommel's (Dr.) Haematogen
Ichthyol Gesellschaft
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Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Kyho Proprietary, Ltd.
London Proprietary Co.
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Midland Drug Co.
Mumford, G. S., & Sons
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Owbridge, W. T., Ltd.
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Primer, J.
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Sanalak, Ltd.
Sangers
Santag Co.
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Squire & Sons, Ltd.
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Thompson & Capper, Ltd.
Tokalon, Ltd.
Tozer, Jas. V.
Transatlantic Ex. and Imp. Co.
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Warriek Bros., Ltd.
White, A. J., Ltd.
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Woodward, W., Ltd.
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Solport Bros.

PUMPS

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Boehringer, C. F., & Soehne
Buchler & Co.
Corbyn, Stacey & Co., Ltd.
Hewards & Sons, Ltd.

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Hopkin & Williams, Ltd.

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SANTONIN

Merek, E.
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SAPONIN

Field, C. W.

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Schimmel & Co.
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Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
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Wood, Vincent

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Euery, Ltd.
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Field, J. C. & J., Ltd.
Finford, C. E., Ltd.
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Harrison, G. W.
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Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Providal Company
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

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Mumford, G. S., & Sons

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Schutz, F., & Co., Ltd.

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Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.

SPERMACETI

Price's Patent Candle Co., Ltd.

SPHYGMOMETERS

Hicks, James J.

SPICES

Goodall, Backhouse & Co.

SPIRIT OF WINE

Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery
Co., Ltd.

SPONGES

Internal. Sponge Importers, Ltd.

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Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

SPRINKLER CORKS

Betts & Co., Ltd.

SPRUCE BEER

Hobson, Joseph, & Son

STARCH

Mumford, G. S., & Sons

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Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

STOPPERS

Stipendum Stopper Co.

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Berliner, Arthur
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynoe, G., & Co.
Haywood, J. H., Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Van Horn & Sawtell
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Warne, W., & Co., Ltd.
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Sinaleo Co.

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Bennett, Sons & Shears, Ltd.
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Wilkinson, S. W., & Co.

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Burroughs Wellcome & Co.

TAP JARS

Fulham Pottery & Chemical
Filter Co., Ltd.

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Allen & Hanburys, Ltd.
 Bishop, Alfred, Ltd.
 Blyton, Astley & Co.
 British Drug Houses, Ltd., The
 Brook, Parker & Co., Ltd.
 Burgoyne, Burbidges & Co.
 Cartwright, W. B., Ltd.
 Cox, A. H., & Co., Ltd.
 Davies, Sons & Co.
 Duncan, Flockhart & Co.
 Evans Sons Lescher & Webb, Ltd
 Guest, Thos., & Co.
 Howards & Sons, Ltd.
 Jackson, Ernest, & Co.
 Johnson & Sons (Mfg. Chts.),
 Ltd.
 Lloyd, H., & Co., Ltd.
 Parke, Davis & Co.
 Standard Tablet & Pill Co., Ltd.
 Thompson & Capper, Ltd.
 Wand Manfg. Co.
 Wigglesworth & Co.

TARTARIC ACID

Boehringer, C. H., Sohn
 British Drug Houses, Ltd., The

TEA

Christy, Thos., & Co.

TEATS

Ingram, J. G., & Son

TIN BOX MAKERS

Goodall, Backhouse & Co.
 Liverpool Tin Canister Co., Ltd.
 Shirley Bros., Ltd.

TINCTURES IN BOND

Macfarlan, J. F., & Co.
 Ransom, W., & Son, Ltd.

TOBACCO

Singleton & Cole, Ltd.

OILET ARTICLES

Adair, Mrs.
 Allen & Hanbury, Ltd.
 Anzora Perfumery Co.
 Armour & Co., Ltd.
 Ayrton, Saunders & Co., Ltd.
 Beetham, M., & Son
 Blackie, Robert

British Drug Houses, Ltd., The
 Bronnley, H., & Co., Ltd.
 Burroughs Wellcome & Co.
 Chesebrough Mfg. Co.
 Christy, T., & Co.
 Cook, E., & Co., Ltd.
 Cox, Arthur H., & Co., Ltd
 Daisy, Ltd.
 Edwards' Harlene Co.
 Erasmo Co., Ltd.
 Eucriyl, Ltd.
 Fulford, C. E., Ltd.
 Gibbs, D. & W., Ltd.
 Harker, C. R., Staggs & Morgan,
 Ltd.

Hovenden, R., & Sons, Ltd.
 Kopp & Joseph

Lloyd, Aimee, & Co.
 Lloyd, A. S. (Hovenden)

Lorimer-Marshall, Ltd.

Maw, S., Son & Sons

May, Roberts & Co., Ltd.

Newbery, F., & Sons, Ltd.

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Osborne, Garrett & Co.

Papier Poudre, Ltd.

Parke, Davis & Co.

Pazery, Richard

Priehard & Constance, Ltd.

Providol Gesellschaft

Quelch, H. C., & Co.

Roberts & Co.

Sangers

Shirley Bros., Ltd.

Softo Manfg. Co.

Solport Bros.

Southall Bros. & Barclay, Ltd.

Standard Tablet & Pill Co., Ltd.

Stedman, J. H.

Tokalon, Ltd.

Woolley, J., Sons & Co., Ltd.

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Ayrton, Saunders & Co., Ltd.

Burgoyne, Burbidges & Co.

Ford, Shapland & Co.

Townsend, J., & Sons

TOOTH PICKS

Odol Chemical Works

TOURS

Free Church Touring Guild

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 Ford Shapland & Co.
 Raworth, John E.

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 Davis, John Morgan, & Sons
 Haywood, J. H., Ltd.
 Maw, S., Son & Sons
 Sangers
 Schmitz, F., & Co., Ltd.
 Wood, Vincent
 Woolley, J., Sons & Co., Ltd.

TURNED WOOD BOXES

Rogers & Co.

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Millard Bros., Ltd.
 Thermos, Ltd.
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VACUUM PANS

Bennett, Sons & Shears, Ltd.
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 Berdoo & Fish
 Brett & Co.
 Evans, Gadd & Co., Ltd.
 Orridge & Co.
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VASELINE

Chesebrough Mfg. Co.

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Christy, T., & Co.
 Cupal, Ltd.
 Danysz Virus, Ltd.
 Evans Sons Lescher & Webb, Ltd
 Farmer, F., & Co.
 Harley, Thomas
 Harrison, G. W.
 Hawker, Arthur E.
 London Hygienic Chemical Co.
 Milner's Chemical Co.
 Steiner, E., & Co.

VETERINARY INSTRUMENTS

Mason Bros. & Chapman
 Maw, S., Son & Sons

VINEGAR

Grimble & Co.

VETERINARY REMEDIES

Chesebrough Mfg. Co.
 Christy, Thos., & Co.
 Day & Sons (Crewe), Ltd.
 Edwards, W., & Son
 Harvey & Co. (Dublin), Ltd.
 Senior, Alf., & Co.
 Tomlinson & Hayward, Ltd.
 Wyleys, Ltd.

WATER GLASS

Barclay & Sons, Ltd.
 Tomlinson & Hayward, Ltd.

WATER STILL

Brown & Sons
 Stokes, F. J., Machine Co.

WATERS, CONCENTRATED

Robinson, B., & Co., Ltd.

WAXES

Price's Pat. Candle Co., Ltd.

WEED KILLERS

Harrison, G. W.
 Tomlinson & Hayward, Ltd.

WINDOW FITTINGS

Ayrton-Graham, Ltd.

WINDOW TICKETS

Merten, F., & Co.

WINES

Burrough, J., Ltd.

WINES, MEDICATED

Burrough, J., Ltd.
 Burroughs Wellcome & Co.
 Coleman & Co., Ltd.
 Fletcher, Fletcher & Co., Ltd.
 Idris & Co., Ltd.
 Robinson, B., & Co., Ltd.

WINES (NON-ALCOHOLIC)

Welch Grape Juice Co., Ltd.

WRAPPING MACHINERY

Forgrove Machinery Co., Ltd.

WRIST STRAPS

Solport Bros.

ZINC OXIDE

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ZINC SULPHIDE SCREENS

Buchler & Co.

OLDFIELD, PATTINSON & CO.

TELEGRAMS:

"OPIUM MANCHESTER."

A RELIABLE HOUSE FOR

All Pharmaceutical Preparations.

CONCENTRATED WATERS
 CONCENTRATED INFUSIONS.

B.P. Tincture.

OPIUM

Aqueous
 Tincture.

Syr. Glycerophosph. Co.

LIQUID EXTRACTS.
 LEVIGATED OINTMENTS.
 ESSENTIAL OILS.

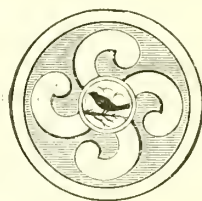
"Silver Churn" Dairy Specialities.

Special Prices to Large Buyers.

Write for List.

MANCHESTER.

Sangers' Sundries



UP-TO-DATE
LOWEST PRICES
HIGHEST GRADE

CELLULOID TOOTH BRUSHES

—ARE ALL THE RAGE NOW.

Selling Points.



Absolutely Non-Absorbent.

More Cleanly than Bone.

Slight Flexibility.

An Advantage in Use.

Dainty Appearance.

Appeal to the Fastidious.



Fig. 55



Fig. 50



Fig. 52




Fig. 54

Lend a note
of colour
and
brighten up
your
window.


	Per doz.
Fig. 52. 3 rows, Transparent, Prophylactic shape, with hole at end for hanging up	4 6
Fig. 53. 4 rows bristle, Transparent	2 9
Fig. 54. 3 rows ,, ,, Improved Pattern	3 3
Fig. 50. 4 rows (Assorted Colours. Opaque—Mother of Pearl, Ivory. Trans- parent—Light and Dark Amber, Pale Green)	3 9
<i>If Mother of Pearl only ordered, 3d. per doz. extra.</i>	
Fig. 51. 3 rows, Child's (5 in. long)	3 0
Fig. 56. 3 rows, Infant's (4 in. long)	1 10
Fig. 57. 4 rows, Unbleached, Super Quality	6 6

**Special
Lines.**

 Fig. 55. 3 rows. A Favourite Model. The serrated bristles set wider apart than shown above, thus being easily cleansed

Per doz.

3/10

 No. 41. 4 rows, best quality bristles. Colours include light and dark amber and a new smoke grey resembling plate-glass (assortment cannot be broken)

5/3

Sangers

258 Euston Rd.,
LONDON.

S. MAW, SON & SONS

7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Maw's

Page.

No. 138

JUNE 6, 1914

LAVENDER
SMELLING SALTS

Here is a line particularly in demand during the Summer—Lavender Smelling Salts. We have a range of bottles attractively designed and labelled, and a selection can be made with perfect satisfaction from the following quotations:



B4381/Z

B4381/Z. Austrian Pine, Cologne, Eucalyptus or Lavender, in Round Actinic Green Stoppered Bottles, 3/9 per doz.

B4382/Z. Lavender, in Flat Vegetable Green Stoppered Bottles, 3/3 per doz.

B4383/Z. Lavender, in Round Actinic Green Stoppered Bottles, in Nickel-Plated cases, 8/6 per doz.

B4384/Z. Lavender, in Square Actinic Green Stoppered Bottles, 8/6 per doz.

B4385/Z. Lavender, in Oval Vegetable Green Stoppered Bottles, 3/9 per doz.

TELEPHONE (4 LINES)
LONDON WALL 3230
TELEGRAMS & CABLES
'ELEVEN, LONDON'
CODE ABC (F" & 5" EDN)

NOTES
& NEWS

"PERFECT" COMBS

WE hold a large stock of the Non-inflammable "Perfect" Combs. They make a splendid selling line at about 6d. each. Put up on cards of half-dozen, assorted, black and white. Price 4/6 dozen; or in six dozen lots, 4/3 per dozen.

"PAREX"—BRITISH MADE

TWENTY Shillings a dozen—less 5%—is the price of our new "Parex" Breast Relievers. Protected retail price 2/6 each. Each "Parex" is put up in attractive grey box. Thoroughly good in every way.

FREE TICKETS

WE have just printed a series of four little "holiday" showcards; designed to imitate railway tickets; all "punched," for Vacuums, Bathing Caps, Sponge Wraps, and Motor and Cycle Goggles. Drop a postcard if you would like a free supply.

Maw's Page

KEEPS EVERY
PHARMACIST
IN TOUCH
WITH OUR BEST
AND LATEST
PRODUCTIONS

OUR OPTICAL
CORNER

TINTED GLASSES.

Now that the cycling season is at hand, Pharmacist-Opticians will be interested in the following list of Goggles:—

Cycle Goggles, with folding gauze sides, in non-rusting metal—

White, smoke or blue lenses 12/- dozen
Amber or Fieuzal lenses 12/- ..

Rimless clips, with dome glasses—

Smoke 12/- dozen
Fieuzal 15/- ..

Rimless curlside Spectacles, with dome glasses—

Smoke 12/- dozen
Fieuzal 15/- ..

Special offer for one dozen lots, 12/-, in assorted colours, with showcard

Finger-piece mounts, with bent glasses—

Smoke 17/- dozen
Fieuzal 18/- ..

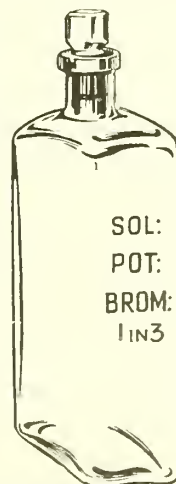
Other tinted Spectacles (straight or curl-side) and Folders, 7/6 and 4/- dozen. All in cases. NOVEL FREE SALECARDS SUPPLIED.

PHARMACY
EQUIPMENTS

Lack of sufficient space is one of the problems of Pharmacy equipments. One solution of the difficulty will be found in our super-quality green flint-stoppered flats with contents indicated by vitrified letters on the *anverso* side. They will be found very useful on dispensing screens or places where space is limited. For working purposes they will form a much more compact, therefore more accessible, array than the old method. The prices are as follows:

8 oz.	16 oz.
11/6	16/-
24 oz.	40 oz.
21/4	20/6

Customers must state their requirements re lettering when ordering, but abbreviated words of not more than four letters can only be printed by this process.



Send to **ELEY** for these!

ELEY BROS. Ltd., possess facilities second to none for the manufacture of Silver- and Nickel-Plated Brass Boxes for Shaving Sticks, and Aluminium Boxes for Dentifrice, Soaps, etc; also Oval and Round Tops for "Taleo" and other Powder Tins, Caps, and Dredgers for Toilet and other Powders.

SOLID DRAWN TUBES, SMALL BRASS AND ALUMINIUM STAMPINGS.

ELEY BROS. Ltd., are large manufacturers of this class of goods to the wholesale trade. Prompt attention given to all inquiries, prices on application.

Address all inquiries for these goods to Dept. 21—
ELEY BROTHERS LIMITED,
254 GRAY'S INN ROAD, LONDON, W.C.

BIRMINGHAM: 29 and 30 Whittall Street.
GLASGOW: 82 Mitchell Street.
LIEGE (Belgium): 107 Rue Louvrex.
FLORENCE: 4 and 6 Via Cavour.

Canadian Branch—

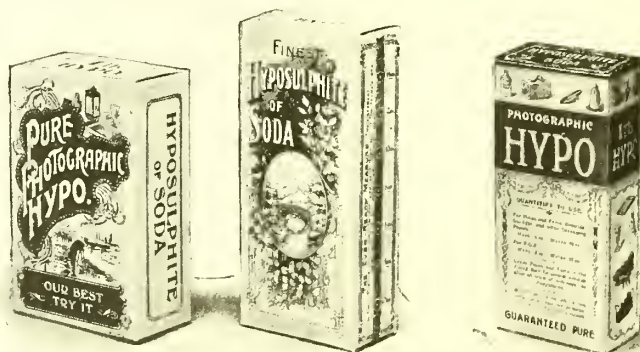
ELEY BROS. (CANADA) LTD., North Transcona, Man.



HYPO. CARTONS

Supplied in
lots of 250
and upwards.

Write for
Samples.



ROUND,
OVAL,
SQUARE,
&
FOLDING
BOXES.

Write for our Price Lists of Boxes for Spring Specialities.

ROBINSON & SONS, LTD.,
Cardboard Box Manufacturers,
CHESTERFIELD.

20,000 DOCTORS

are recommending

PLASMON

ALL NOURISHMENT

OATS

Because

"They are the FINEST SCOTCH OATS enormously increased in food value by the addition of Plasmon."—*Lancet*.

DELICIOUS NUTTY FLAVOUR—FIVE MINUTES' BOILING ONLY. DOUBLE THE QUANTITY OF PORRIDGE.

LARGE PROFITS FOR YOU. ORDER TO-DAY & LET YOUR CUSTOMERS KNOW YOU STOCK.

PLASMON, Ltd., 66a Farringdon Street, London, E.C.

CUSHION SHAPED LIQUORICE and MENTHOL PELLETS.

THE ORIGINAL AND THE BEST.

3s. 6d. per lb. Also in Tins at 2/- and 4/- doz.

ERNEST JACKSON & CO.,

Telegrams: "Jackson Crediton."

Crediton, & Plantain Place, Crosby Row, Borough, S.E.

CORRUGATED PAPER PACKINGS OF EVERY DESCRIPTION.

Made by British Capital, employing British Labour, at a British Paper Mill. The whole organisation, from pulp to finished article, under one control, thus ensuring PROMPT DELIVERY, LOWEST PRICES, and SPECIAL FACILITIES for making to individual customer's requirements.

GOODS FOR COLONIAL MARKETS, WHEN PACKED WITH OUR PRODUCTION, CAN BE INVOICED AS "BRITISH THROUGHOUT."

Before deciding on the final make-up of your New Lines please consult us, it will pay you. We have on our Staff a Salesman specially trained in the use of this class of material, and he will be pleased to advise buyers as to the respective merits of English, American, and German methods of using Corrugated.

ILLUSTRATED CATALOGUE SENT FREE ON APPLICATION.

GEO. C. BRIGHTLING & CO., LTD., 63 QUEEN VICTORIA STREET, LONDON, E.C.



"PRANA" SPARKLETS

Put one of these delightful
"SPARKLET GIRL"
 SHOWCARDS

in your window with a few

"PRANA" SPARKLET SYPHONS & BULBS

and so ensure your share of the largely increased demand which the *Press Advertising Campaign* (now running) and the phenomenal *Soda Water value* of a Magnum Syphon of Soda Water for

1½d.

are steadily building up.

We anticipated big things, but the result already has far exceeded our most sanguine anticipations.

AERATORS LIMITED,

"PRANA" SPARKLET WORKS, UPPER EDMONTON, LONDON, N.

A WORD TO CHEMISTS & DRUGGISTS.

ICE CREAM

SODA FOUNTAINS



ARE VERY EXPENSIVE TO INSTALL :
*SAVE THE EXPENSE, BUT GET
 THE TRADE ALL THE SAME.*

Every Chemist sells Soda Water in Syphons ; Milk
 forms the basis of all Ice Cream Sodas.

"An Ideal and Soda, please!"

is a demand daily becoming more frequent, the new beverage being well advertised.

YOU SUPPLY THE SODA WATER ADDED TO OUR

IDEAL MILK

in the proportion of about 4 parts
 of Soda Water to one of milk,
 add any desired flavouring,

AND THERE YOU ARE !

Absolutely no expense for installation, and
 a paying side-line to attract other business.

WRITE FOR SAMPLES AND PRICES OF

IDEAL MILK

TO

NESTLÉ'S, EASTCHEAP, LONDON.



By Royal Appointment



to H.M. King George V.

INGRAM & ROYLE, LTD.

Sole Agents for the Natural Mineral Water of

VICHY-CÉLESTINS

(STATE SPRING).

CARLSBAD WATERS & NATURAL CARLSBAD SPRUDEL-SALT.

(The only GENUINE.)

WHOLESALE AGENTS FOR



ÆSCULAP,
BONIFACIUS,
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BUXTON,
CHELTENHAM APERIENT,
CONDAL,
CONTREXÉVILLE,
COUZAN (Source)
EMS, (Gâtier)
EVIAN-CACHAT
FACHINGEN,
FRANZ-JOSEF,
FRIEDRICHSHALL,

GISSHÜBLER,
GUBERQUELLE,
HUNYADI JÁNOS,
INSALUS,
KISSINGEN
KONIGSQUELLE,
KRONENQUELLE,
LEVICO
MALVERN (Alpha Brand)
MARIENBAD,
MARTHAQUELLE,
MONTREUX,
OBERBRUNNEN,

OBER-SELTERS,
PERRIER,
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ROSBACH,
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SOULTZMATT,
ST. GALMIER,
TANSAN,
ULIVETO,
VALS,
VILLACABRAS.
VITTEL,
WILDUNGEN,

And all other Natural Mineral Waters, Salts, Pastilles, &c.

CHEMISTS SHOULD WRITE FOR SPECIAL NET PRICE LIST.

Showcards, Pamphlets, Dummy Bottles, &c., forwarded on application.

LONDON—

BANGOR WHARF, 45 BELVEDERE ROAD, S.E.

LIVERPOOL—

19 SOUTH JOHN STREET.

BRISTOL—

BATH BRIDGE.

TELEGRAPHIC ADDRESSES—

"INGRAM-ROYLE LONDON."

Telephone: HOP 4343 (2 lines).

"CELESTINS LIVERPOOL."

TELEPHONE: BANK 4528.

"SPRUDEL BRISTOL."

Telephone: 1113.

(9)

L. GIVAUDAN, GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

Acetate of Linalyl	Jasmins
Bergamot art.	Musks
Cinnamic alcohol	Neroli
Citronellol	Phenylethyllic alcohol
Coumarin	Rhodinol
Geraniol	Roses
Geranium	Violets
Jacintheas	

&c. &c.

LONDON BRANCH: 43/45 Great Tower Street, E.C.
Telephone Number: Avenue 83.

Telegraphic Address: "Muskol-Bilgate, London."

AMERICAN BRANCH: Geo. Lueders & Co.,
218 & 220 Pearl Street, New York.

CHUIT NAEF & CO.

M. NAEF & CO.

(Successors)

GENEVA, Switzerland.

WORLD - RENOWNED PERFUMERS
are now using our leading Specialties in
Synthetic & Aromatic Chemicals

We cannot improve our qualities, **but You** can blend our ingredients and produce exquisite Perfumes.

Up-to-date Novelties for modern floral odours are

<u>Cyclosia</u> . . .	As indispensable as Jonone in modern perfume laboratories.
<u>Lilafleur</u> . . .	The most delightful and refreshing Lilac odours ever produced.
<u>Fleur de Muguet</u>	Very finest perfume of the Lily of the Valley.
<u>Rose Orient</u> . . .	The best substitute existing for the costly Bulgarian Otto of Roses.
<u>Rose Provencale</u>	Yields the typical odour of the natural Rose Oils as produced in the South of France.

Samples and Price Lists sent on application.

AGENTS:

E. N. FRANKENSTEIN & CO., Ropemaker Street, Finsbury, LONDON, E.C.	
A. BEROU	11 Rue du Perche, PARIS 3e Arrt.
UNGERER & CO. (Inc.)	273 Pearl Street, NEW YORK.
THE MEIJI TRADING CO.	TOKYO & OSAKA, JAPAN.

A. Boake Roberts & Co., Ltd.. STRATFORD, LONDON, E.

. . . FOR . . .

SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class

∴ Aerated Waters, use ∴

BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,

Orange,

Ginger,

Ginger Ale,

Stone Ginger Beer (*Cloudy*),

Clear Ginger Beer,

Kola Champagne,

Lime Juice and Soda,

Lemon Squash,

Raspberry,

Strawberry,

Pineapple,

Vanilla, &c. &c.

**GOLDEN CARAMEL COLOURINGS, &c.
and all sundries.**

A. Boake Roberts & Co., Ltd..

"ANZORA" Advertising

IN continuance of our established policy of advertising "Anzora Cream" to the public, thereby creating the demand for the retailer, we are pleased to be able to announce to the Trade that we have secured the

WHOLE FRONT PAGE of the "DAILY MAIL" on JULY 2.

In this space we shall so convincingly advertise the merits of "Anzora Cream" that at once a vast new trade will be created—a trade upon which, as hitherto, the retailer will make

A Protected Profit of 80%

as "Anzora Cream" is on the P.A.T.A. cards, cut-outs, leaflets, and reproductions of the whole page as you require. We are prepared to supply as many show-

The Demand will be great—Be ready for it.

Trade Terms are:—11/6 per doz., being retailed at 18/-; 19/6 per doz., being retailed at 30/-
10% Discount on orders of 3 dozen or more.

Order a supply to-day from your usual wholesaler, and send a card to us for showcards, etc.

ANZORA PERFUMERY CO., 32-34 WILLESSEN LANE, LONDON, N.W.



HAY'S HAIR HEALTH

Sells steadily and consistently. The retail chemist who has it on his shelves is assured of a continued sale of a good preparation.

HAY'S HAIR HEALTH

Restores natural colour to grey or faded hair, eradicates dandruff, cleanses the scalp. Is not a dye.

ON THE P.A.T.A. LIST.

For Prices and information on Sales Helps, address—

THOMPSON & CAPPER, LD.
Manesty Buildings,
COLLEGE LANE, LIVERPOOL.

TRAUN'S

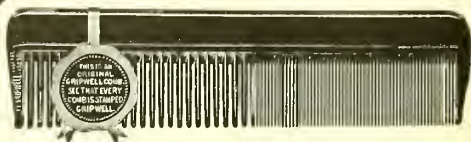
Makers of the
celebrated

HIGH-CLASS
**VULCANITE
COMBS**

**GRIPWELL
COMBS.**

GUARANTEED for one year against
breakage, non-inflammable, beauti-
fully finished.

To retail from 1/- upwards.



Made in a variety of shapes and sizes.

OTHER IMPORTANT BRANDS—

TRAUN'S "GIANT" Combs.

TRAUN'S "CUMFEECO"

FINE TOOTH COMBS.

TRAUN'S "GLADSTONE"
COMBS. Etc. Etc.

All these good selling
lines may be obtained
from all the usual
Wholesalers.

**THE
ACME
OF
PERFECTION**

Appearances are deceptive.

Clay is cheap, but in time it turns to beautiful Sapphires ; ordinary sand is not greatly valued yet it produces much prized Opals ; and from dirty, apparently worthless, soot we get the most precious stones of all—Diamonds.

This illustrates a common situation in the Drug Store business.

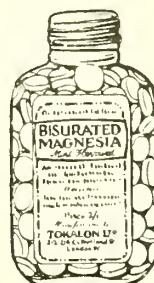
In the opinion of some chemists, the profit on an individual sale of Bisurated Magnesia does not appear to be as large as it should. But it is the aggregate sales that count, and no matter how much Bisurated Magnesia you hold in stock we guarantee to sell every bottle—so if you hold big stocks you will make large profits.

There is one important difference in the simile.

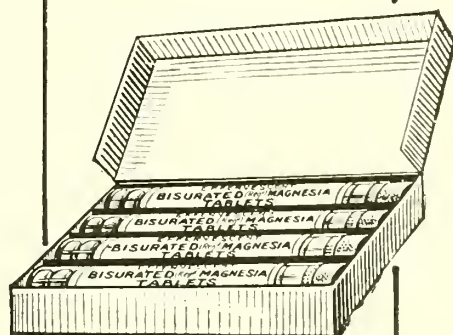
The jewels only materialise after a considerable lapse of time, but increased profits materialise as soon as you stock Bisurated Magnesia—because our extensive advertising will send you many new customers and sales will mount up rapidly—there is no waiting for sales.

Supplies of each form of Bisurated Magnesia can be obtained from any wholesaler or direct from the proprietors—

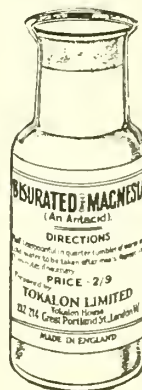
TOKALON LIMITED,
212/214 Great Portland Street,
LONDON,
W.



Mint Flavoured Tablets,
10/6 and 20/6 per dozen.



Effervescent Tablets,
37/6 per dozen.



Powder,
17/- and 26/6 per dozen.

Telephone :
CENTRAL
702.

ADOLPH SCOTT,

Telegraphic
Address :
"ADOLPH
BIRMINGHAM."

24, 25 & 26 GREAT HAMPTON STREET, BIRMINGHAM.

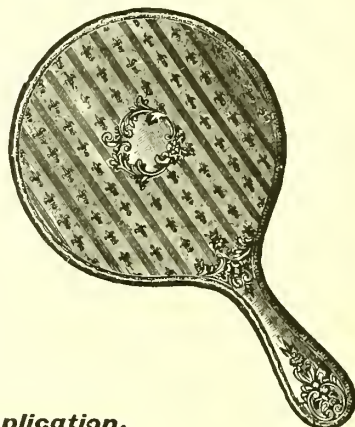
SILVERSMITH & SPECIALIST IN TOILET WARE.

Latest Designs in Silver and Electro-Plated



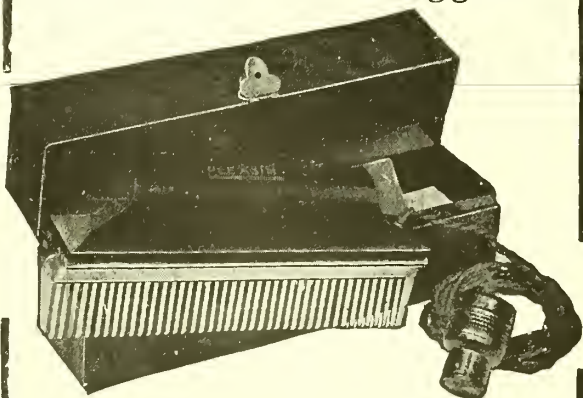
**BRUSHES
MIRRORS
COMBS
SCENT BOTTLES
SCENT SPRAYS
TOILET BOTTLES
TRINKET BOXES
MANICURE SETS, &c.**

**IN STERLING SILVER
AND ALSO IN
SILVER PLATED.**



Catalogues on Application.

*A paying side-line for all
Chemists and Druggists.*



The "Plexsim" Electric Comb and Hair Dryer.

It will dry the heaviest head of hair in twenty minutes, without fatigue. Gives all the effects of an expensive shampoo, and leaves the hair soft, glossy and wavy. Can be attached to any existing electric light socket.

**Complete in Leather Box, 12/6
SIMPLEX CONDUITS, LTD.
GARRISON LANE,
BIRMINGHAM.**

TITTERTON'S CELEBRATED HAIR BRUSHES



**GOOD
PROFITS**
are made by selling
**TITTERTON'S
CELEBRATED
BRUSHES**
(Hair, Tooth, Nail & Shaving
Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.

Illustrated Catalogue on application.

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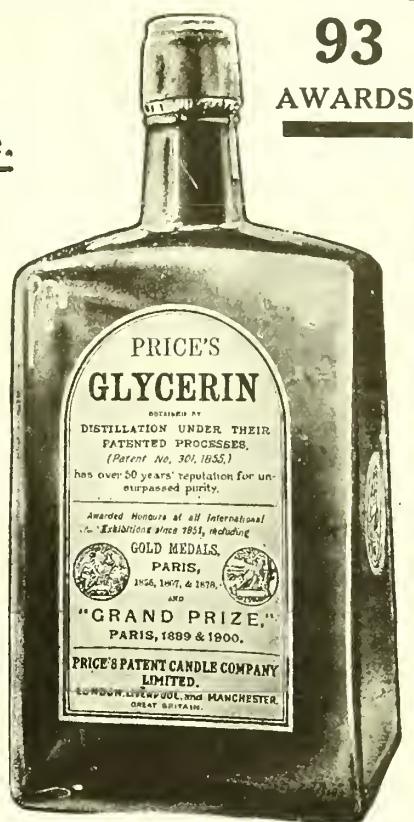
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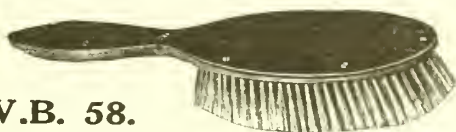
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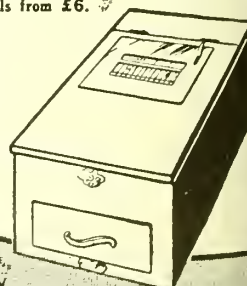
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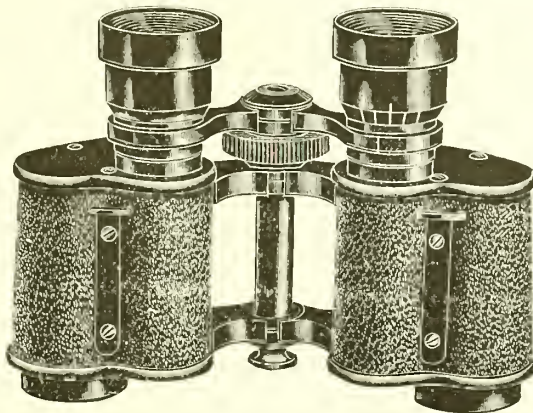
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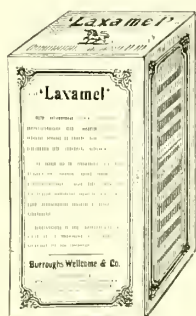
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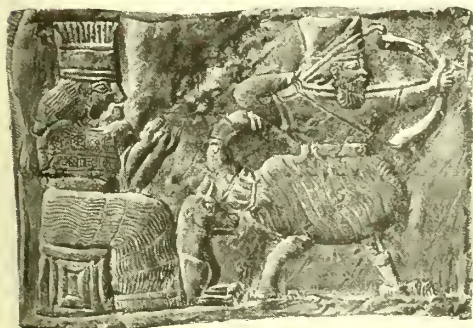
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In the Coloured Supplement.

College Notes.	Poisonings.
Coming Events.	Sports.
Minor Experiences.	Trade-marks.
New Books.	

SOMETHING EXTRA SPECIAL

in booklets has just been produced by the Publishing Department, and all interested in the merchandising of chemists' goods should see it. Its special message is the

SUMMER ISSUE

of THE CHEMIST AND DRUGGIST and the distribution of insets therein. The brochure itself may give to a receptive mind an idea in style for an attractive inset, and the proposition put forward is certainly worth the careful consideration of every advertiser of drug-trade products. Write for a copy, and at the same time tell the Publisher any difficulties you may have with regard to advertising to the trade in this or any other way.

THE CHEMIST AND DRUGGIST,
42 Cannon Street, London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The subject of this week's article on botany for the Minor is horseradish (p. 34).

The new British Pharmacopoeia is to be ready for publication about July 13 (p. 46 and p. 47).

A contributor resident in Switzerland describes how the cutter has invaded that peaceful country (p. 57).

Last month's prescription problem did not bring us any correct transcriptions, and we are unable therefore to award prizes (p. 34).

The adulterants of vanillin have been examined exhaustively by Lehmann. We give the main conclusions of the research on p. 34.

"The claims of chemists will receive the full consideration of the Commissioners on equitable grounds," says the Chairman of the Plymouth Insurance Committee (p. 50).

The matters dealt with this week by "Xrayser II." are the Drug Fund deficits, the death of Sir Joseph Swan, the new B.P., and the Wellcome Historical Museum (p. 47).

The Preanger Cinchona League have endeavoured to obtain a satisfactory method of assaying quinine in cinchona-bark, but the prize competition which was organised was only partly successful (p. 35).

The letters which begin on p. 61 deal with Insurance matters, Bellier's test for arachis oil, book-keeping for chemists, the suggested failure of local Associations, the Apothecaries' Hall of Ireland, and other matters.

News of the Week.

The latest prices charged by the Civil Service Supply Association, Ltd., are given on p. 36.

A fuller report of the meeting at Preston, when Mr. Woolcock's checking scheme was rejected, is given on p. 51.

Further particulars of the programme of the British Pharmaceutical Conference at Chester are given on p. 43.

The sale of linseed, liquorice, and chlorodyne lozenges by other than chemists is causing a difficulty in Victoria (p. 38).

Mr. Campkin has not been re-elected Vice-President of the Pharmaceutical Society, the position having been given to Mr. Neathercoat (p. 55).

William Purton, who has preyed on retailers for a long time, has been convicted of fraud and sentenced to six months' hard labour (p. 37).

The General Medical Council has registered two medical students whose certificates did not include Latin. Some older members protested (p. 45).

Out of four cases of alleged infamous conduct brought by the British Medical Association before the General Medical Council, three failed (p. 45).

The price-protection movement is active in South Africa. The Transvaal chemists have produced a revised standard price-list for the use of retailers (p. 39).

The Bradford Magistrates have refused to consider the official view that "Wincarnis with Quinine" may be sold by chemists without a wine-licence, and have fined a chemist's manager. The Chemists' Defence Association defended, and an appeal is likely to arise (p. 40 and p. 50).

Trade and Market Matters.

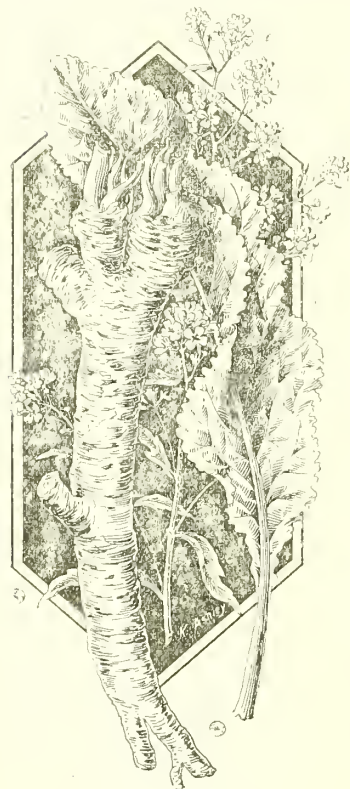
The camphor-market is reviewed on p. 49, the effect being considered of the withdrawal of official quotations for monopoly camphor, cost of production of artificial camphor, refining, and falling-off in exports.

A better feeling prevails in the markets, but the volume of business reported this week is small, owing to the holidays. Ergot is dearer, opium firmer, and chloral hydrate is also dearer, but salol is cheaper. A proposal to reduce the buchu-picking tax has been agreed to by the Cape Province Parliament (p. 60).

Minor Botany.

Being the nineteenth of a series of articles for pharmacy students which commenced on January 3, 1914.

HORSE RADISH (*Cochlearia Armoracia*, L.) is exotic in origin, but its prolonged cultivation in this country has led to it becoming naturalised in waste places, and most country gardens contain specimens.



COCHLEARIA ARMORACIA.

The fleshy root, which is used in the fresh state as a condiment and in pharmacy, is a good example of a tap-root—i.e., one in which the primary root persists and forms the main axis of the root system. In the horseradish the root descends commonly to a depth of 18 inches without branching, and it is evident that the lower ramifications of the root must penetrate to a considerable depth in the soil. The root is used for storage of reserve food, and the slightly tapering (so-called cylindrical) pieces, $\frac{1}{2}$ in. to 1 in. thick, forming the root of commerce, represent only its upper portion. Accordingly the pieces left in the ground send up fresh shoots, and it is this property which makes weeds

with fleshy roots so difficult to eradicate.

The root is enlarged at the apex, where it imperceptibly merges into the stem, represented by the "crown" of two or three branches bearing leaf-scars and radical leaves (leaves which appear to spring from the ground owing to the shortness of the aerial stem or to it being underground). The long lance-shaped leaves are borne on a strong stalk and rise to a height of about two feet. The lamina (blade) is waved and has scalloped margins. A smooth flowering-stalk rises amid the tuft of leaves to a height of two or three feet, bearing much smaller stalkless leaves, in the axils of which are thick terminal clusters or racemes of numerous white flowers of characteristic cruciferous form. The pale-yellowish or brownish-white root is odourless until it is bruised or scraped, when it develops a pungent odour and taste due to the formation of allyl isothiocyanate owing to the action of the myrosin on sinigrin. As with black-mustard seed, ferment and enzyme are stored in separate cells.

THE DISPENSING OF MEDICINES in Peru is very definitely separated from the prescriber. In some of the smaller towns, where it would not pay for a business to be run, the Government make a grant to the pharmacist.

"KEW BULLETIN," No. 3 of 1914, contains an article entitled "Hints for Collectors," which is of great interest to anyone concerned in the collection and preservation of botanical specimens. The transshipment of live specimens, the kind of specimens to be collected, and the principal means of preserving them in the dry or wet state are given.

PRESCRIPTION PROBLEM.

THE exercise in prescription-reading which was given in the *C. & D.*, May 9, 1914, p. 35, brought only a poor response, doubtless on account of the difficulty in deciphering the directions for the powder. The second ingredient, in which quinine is indicated by an abbreviation of the German spelling "chininum," was also a stumbling-block for some competitors. It will be noticed that the doctor intended to order both caffeine and sodium bromide in doses of one grain each. The correct transcription is as follows:

Phenacet gr v
Chin. brom. gr ij
Caffein. sod. brom. [aa] gr j
M. f. p. M. N 4 in capsul
[Misce fiat pulvis. Mitte No. 4]
amylaceous. D.S. As directed.
Lin. bellad
Lin. opii
Lin. terebinth aa ʒiiss

There will be no prize award this time as no competitor sent in a clean copy. The following prescription forms the subject of the next competition. Postcards only are permissible, and these should be posted not later than June 15. Prizes will be awarded at the discretion of the Editor, and in case of close competition the time of posting will be taken into account:

Best Copy 30

by 3 for 6 m a c

Examination of Vanillin.

LEHMANN (*"Chemiker Zeitung,"* 1914, 388) has made an exhaustive examination of the effect of various adulterants on the melting-point of vanillin. He states that vanillin made from geraniol contains traces of impurities which lower the melting-point. Our contributor fully confirms this, having recently met with cases in which these traces of impurities have completely ruined the substances which they have been mixed with for flavouring-purposes. Absolute vanillin commences to liquefy at 79.5° C., and is completely liquefied, according to Lehmann, at 81.9°, whereas guaiacol-vanillin commences to liquefy at 77° to 79°, and is completely melted at 81° to 81.5°. Lehmann prepared about 500 mixtures of vanillin with from 1 to 50 per cent. of the following adulterants: Guaiacol carbonate, coumarin, heliotropin, benzoic acid, salicylic acid, aceto-salicylic acid, acetanilide, and phthalic anhydride. The melting-points of these samples were determined, and the effect of the adulterants on this figure recorded. The following figures are selected, from which those for any intermediate values can be found with comparative accuracy by a process of interpolation or plotting the necessary curve:

	Guaiacol	Couma-	Helio-	Benzoic	Salicylic	Aceto-	Phthalic
%	Carbonat	rin	tropin	Acid	Acid	salicylic	Anhy-
5	80.2°	79.6°	80°	80°	79.5°	80.5°	Anhy-
10	79°	78°	77.3°	77.3°	78.8°	78.5°	dride
15	79°	77°	77°	76.5°	76.8°	77°	77°
20	78°	73°	75°	74°	75°	76°	75.7°
25	78°	72°	75°	72°	73°	78°	73.5°
30	77.2°	71.1°	74.2°	80°	90°	105°	73°
35	74°	68.4°	73.5°	83.5°	102°	105°	70.3°
40	72.8°	66.2°	73.5°	90°	108°	105°	80°
50	70.6°	51.8°	68.5°	90°	123°	115°	91.3°

These figures are interesting as showing that with certain adulterants the melting-point is continuously lowered as

the amount of the adulterant increases, whereas the melting-point commences to increase as certain other adulterants are used in increasing quantity. The following methods for the detection of some of these adulterants are given:

Benzoic acid: Warm with methyl alcohol and sulphuric acid. Characteristic odour of methyl benzoate results.

Salicylic acid and aceto-salicylic acid: with the same reagents a characteristic odour of wintergreen oil results.

Phthalic acid: Fluorescein reaction will reveal 5 per cent.

NETHERLANDS NOTES.

Army Pharmacists' Pay.—The pay of military doctors has been adjusted in accordance with the scale granted in the War Budget, which has just passed the Dutch Parliament. The pay ranges from 2,000fl. for a newly appointed surgeon to 5,500fl., which an inspector of the medical military service receives. The rates are higher than those paid to army pharmacists. On appointment the salary of a military pharmacist of the second class is 1,600fl.; after three years he gets 1,800fl.; again, three years later on, it is raised to 2,100fl. A pharmacist of the first class gets a salary of 2,500fl., after fifteen years of military service 2,700fl., after twenty years 2,900fl., and after twenty-five years' service 3,200fl. Only a few of the military pharmacists attain nomination as directing pharmacist with the rank of major and a salary of 3,500fl. The highest position attainable for the military pharmacist is that of lieutenant-colonel, who has a pay of 4,000fl. The military pharmacists consider their pay too low compared with that of their medical colleagues.

Assay of Quinine in Cinchona-bark.—Dr. R. Broersma, writing from the Dutch Indies, states: "Everyone remembers the struggle which took place in 1912 and 1913 between the Java cinchona-planters and the manufacturers of quinine in Europe with regard to the market price of the bark. In June 1913 an agreement was made by which the planters are bound to furnish a certain amount of quinine sulphate in bark, for which a unit of 5 cents will be paid. As the 'unit' is the price of half a kilogram of bark calculated for every per cent. of quinine sulphate it can furnish, it is of great importance, both for the planters and the manufacturers, to know the exact amount of quinine in cinchona-bark. For the determination of the value of the bark different methods are followed, which are nearly all secret. The Gouvernements-kinaonderzoek has its own method, the chemists of the manufacturers have another, and these different methods do not lead always to concordant results. On this account the Preanger Cinchona League, with a view of promoting unification in the analyses, drew up a scheme by which prizes were to be awarded for the best method for determining the quantity of quinine in cinchona-bark. The condition was that the analysis should determine as nearly as possible the exact amount of quinine, and should give no more difference between two analyses of the same bark than 0.2 per cent. Four replies were received, but two of these were unsatisfactory; while in the other two methods the quantity of quinine found differs too much from the real amount present. The purpose of the competition, which aimed at obtaining a method of analysis incontestably preferable to all others, has therefore not been attained. The two replies referred to have, however, contributed much to the possibility of attaining the purpose in view, and it has been decided to divide the prize between these competitors. The judges were Dr. van Romburgh, Dr. Schoorl, and Dr. van Lee-sum, and the awards, as stated, were obtained by the 'Gouvernementsproefstation at Tjinjiroean and Dr. A. Maurenbrecher in collaboration with Dr. A. J. Utée.'

THE DRUG-STORE AND CIVILISATION.—Lord Beaconsfield's famous aphorism about prosperity being indicated by the condition of the chemical-trade finds a parallel in Mr. Hamilton Fyfe's recently published work, "The Real Mexico: A Study on the Spot." Writing of the Mexican city Orizaba, which he styles as prosperous and large, but ambitious, Mr. Fyfe states: "In the first hour of disappointment I was tempted to call Orizaba uncivilised. But, however, would be unfair, for it has 'kinemas' and several drug-stores. You have probably noticed that the first requirement of civilisation is a 'cantina,' or drink-shop; the next, a drug-store; evidently 'if faut souffrir pour être civilisé.' It is only barbarians who can live without headache-tablets and indigestion-cures." Those pharmacists who feel pessimistically inclined regarding the decay of drug-taking will now be reassured.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Dr. F. W. Abbott has been appointed dispenser at the Tooting Home by the Wandsworth Board of Guardians, at a salary of 15*l.* per annum.

Reginald A. D. Jones, seedsman, 50 Cross Street, Aber-gavenny, has applied to the Monmouthshire County Council for an agri-horticultural poisons licence.

The report of the Royal College of Physicians of London upon the infectivity of tuberculosis has now been issued. Copies may be had on application to the Registrar of the College, Pall Mall East, London, S.W.

At Bow Street Police Court on May 29, John Highwater and Lily Gringer were committed for trial, bail being allowed, on the charge of obtaining money by false pretences. (See *C. & D.*, May 23, p. 791.)

The Nottingham Board of Guardians have decided to instal at Bagthorpe Infirmary an x-ray equipment and radiographic couch at a cost of 147*l.* 14*s.* 8*d.* An operator will be appointed at a salary of 50*l.* a year.

A fire occurred on May 26 at the rear of the premises of Mr. J. Richardson, chemist and druggist, 44 Station Road, Hadfield, Manchester, and, although prevented from reaching the shop, a good deal of damage was done to the building and its contents.

The Port of London medical officer reports that a steamship recently discharged 12,625 sacks of crude borate and 7,757 sacks of sugar. The latter sacks were coated outside with the borate, which contained arsenic in dangerous quantities, and it was found that the sugar was also impregnated with arsenic.

It is proposed by the Royal College of Veterinary Surgeons to establish a diploma in Veterinary State Medicine. The special subjects of examination are to be epizootiology, veterinary hygiene and toxicology, veterinary bacteriology and protozoology, and chemistry as applied to veterinary hygiene. An application has been submitted for a supplemental charter giving the College the power to grant the diploma.

Drug-trade Appeal Fund.

In the annual report to be submitted to the annual meeting of subscribers on June 5, the Trustees state that no appeals had been undertaken during the past year. The income from interest was 17*l.* 4*s.* 5*d.*, and the expenditure 5*l.* 17*s.* 6*d.* The balance-sheet shows that the net present value of the assets belonging to the fund is about 595*l.*—"not a very large sum," the Trustees remark, "but sufficient for present wants."

Society of Chemical Industry.

The annual meeting of the Society of Chemical Industry is to be held at Nottingham on July 15 and following days. The meeting takes place at University College and luncheon at the Victoria Station Hotel. After luncheon there will be an excursion to Southwell and garden-party at Brackenhurst Hall, in the evening a reception by the Mayor of Nottingham at the Castle. Thursday will be occupied by visits to local works, these including cycle, porcelain, leather, tobacco, and lace factories, and the laboratories of Boots, Ltd. There will be a garden-party at Gedding House in the afternoon, and in the evening the annual dinner will be held. Friday will be occupied by an excursion to the "Dukeries," and in the evening there will be a reception by Sir Jesse Boot. The President-elect is Professor G. G. Henderson, of the Royal Technical College, Glasgow.

Southend-on-Sea Water-supply.

The first portion of a new water-reservoir at Southend-on-Sea has recently been completed. It is interesting to note that natural processes are at work which automatically soften the water before it reaches the pumps. Dr. J. C. Thresh accounts for this by saying that "calcareous water passing through certain silicates of alumina containing potash and soda become softened." Such silicates

are present in the sands in which the water rests. This theory seems to prove that the extreme softness of the water supplied to the Southend district is due to two causes: the compression of the water in the Thanet sands above the chalk acting as a softening filter, and the renewal of the softening properties contained in these sands by infiltration of sea-water.

Store-prices.

The price-list of the Civil Service Supply Association, Ltd., for the ensuing year contains 1672 pages, of which fifty are devoted to the drug-department. In the latter special attention is directed to the drugs and proprietary articles which "are either made up in the Association's own laboratory or prepared for the Association from approved formule," $7\frac{1}{2}$ pages being given over to illustrations of these. The 16-page list of drugs and proprietary articles usually kept in stock is mainly composed of well-known proprietary articles, frequently interspersed with C.S.S.A. products in black type. Perfumery, toilet-preparations, and soaps occupy ten pages, druggists' sundries two pages, ladies' ornamental hair two pages, perfume-sprays, douches, air-cushions, hot-water bottles, etc., six pages. The Members' Circular for June gives chief prominence to paraffin confection (4 oz. 6d., 8 oz. 1s., 16 oz. 1s. 6d.), purified liquid paraffin (8 oz. 8d., 16 oz. 1s. 3d., 32 oz. 2s. 4d.), and to weed-killers and insecticides. Announcements are also made of daily demonstrations of "Kraska" liquid nail-polish (in bottles at 1s., 1s. 6d., and 2s. 6d.) at Queen Victoria Street and Bedford Street drug-departments.

Sale of Potent Drugs.

Dr. R. A. Jones, F.R.C.P., communicated to the "Morning Post" of June 3 a long letter on "Drugs of Addiction: A Menace to the Nation." He advocated "a thorough reconstruction of the English law in relation to poisons, drugs, and dangerous medicines." He added that the Select Committee on Patent Medicines "received abundant evidence that there was an immediate demand for further restrictions upon the sale and the use of potent drugs," and told how the laws of Austria, Germany, and Russia restrict the sale of these. In this country, he added:

"The only restriction that exists at all in regard to the schedule of poisons described as Part II. of the Poisons and Pharmacists Act, 1908, is that the sale of the drugs enumerated in this list is merely confined to registered pharmacists, who need only label the article, add the word 'Poison,' and state the name and address of the seller. No precautions whatever are needed in regard to the sale of drugs, such as antipyrin, antikamnia, exalgin, anti-febrine, phenacetin, paraldehyde, the bromides, cannabis indica, and many others equally deleterious, and thus the present law permits the sale of a number of active poisons without any medical advice, and even without the knowledge of a doctor."

Our contemporary backs up these observations editorially. [Dr. Jones's inaccuracy regarding the Schedule to the 1908 Act is sufficient reflection upon his opinions.—EDITOR C. & D.]

Liverpool Notes.

Most of the local pharmacies were closed the whole of Whit Monday, chemists taking full advantage of the Shops Act to have a full day's holiday.

Liverpool chemists are now, as a result of the Corporation's scheme for supplying free medicines in cases of tuberculosis, "Municipal" as well as "National" dispensers.

A great gloom has overspread business in Liverpool, on account of the loss of the *Empress of Ireland*, whose crew contained many Liverpool men. On Saturday one saw the scene of the *Aquitania* making her maiden trip, with thousands to see her off, while across the road at the Liver Buildings (where the C.P.R. offices are) were hundreds of people struggling to see the latest list of the catastrophe survivors.

The picnic to be held under the auspices of the Liverpool Chemists' Association is now definitely fixed for June 17, instead of June 24. Arrangements have been made for 150 guests, and as the Ribble Valley is just now at its best, the outing promises to be very enjoyable.

It is hoped that all the tickets will be taken up, as this is quite the biggest thing the Association has ever arranged. Mr. H. Humphreys Jones (President and Principal of the Liverpool School of Pharmacy) has invited the whole of his students to join him in the excursion. The company is to assemble at Exchange Station at 1.15 p.m., and will depart for Whalley by special saloon train. From Whalley the company is to drive to Clitheroe via Stonyhurst College and Great Milten Church, a distance of about twelve miles. High tea at the Swan and Royal Hotel at 6.30 will be followed by games, and after being photographed the party will return to Liverpool, arriving there at 12.25 a.m. The tickets cost 7s. 6d. each, and may be obtained from the Hon. Secretary, Mr. John H. Robinson, Exchange Station Buildings, Liverpool.

Birmingham Notes.

The "Mail's" correspondence this week includes several spirited letters from local pharmacists, with and without adjectival descriptions, relating to "apathy" in regard to overdue Insurance accounts and the intention to "bleed" them still further by taking away the charge for distilled water.

Sheffield Notes.

Mr. A. R. Powell's new pharmacy in Grimesthorpe is a very cheerful addition to a purely working-class district. It is impossible to pass the shop without being attracted by his window-displays; in one window he has a fine show of Horlick's malted milk, filled in by toilet-articles, and in the second window samples of the popular colours and spring-cleaning requisites are ingeniously arranged.

The practice of chemists using the city posting stations for advertising has increased of late years. Mr. Job Preston, 105 Barker's Pool, is using extensively a green-and-black bill, with his well-known trade-mark of a poppy-head, lettered with "CPS," which represented the firm when Mr. Cubley was a member, advertising his White Fluff Dry-cleaning Cloth Block, which locally is a very popular article.

Shops Act.

At Ammanford (Carmarthenshire) chemists stocking and selling groceries will have to close by an order made under the Act at 7 p.m. Mondays, Tuesdays, and Wednesdays; 1 p.m. Thursdays (weekly half-holiday); 9 p.m. Fridays; and 10.30 p.m. Saturdays.

The Maesteg Urban District Council propose to make a closing-order under the Shops Act for chemists' shops to close (except for the sale of medical and surgical appliances) at 3 p.m. Mondays; 7 p.m. Tuesdays, Thursdays, and Fridays; 1 p.m. Wednesdays; and 11 p.m. Saturdays.

Contracts.

The following contracts have been settled:

Brighton Guardians.—Corbyn, Stacey & Co., for drugs. Coventry and Warwickshire Hospital.—Carnegie Bros. for a six months' supply of dressings.

Weston-super-Mare Urban Council.—Mr. S. G. Tydeman, Stowmarket, as chemist to the Statutory Hospital.

East Ham Town Council.—Annual supplies of soaps and the like by Middleton Bros., McDougal Bros., and W. Stone & Son.

Indian Government Medical Service.—N. W. Mitchell & Sons, Ltd., for the annual contract for corks (about 8,000 gross, to the value of nearly 700l.).

Glossop Town Council.—Killgerm Co., Ltd., for carbolic powder, soluble disinfecting-fluid, and "Killgerm" fluid; the Sanitas Co., Ltd., for carbolic soap, sulphur candles, gummed strips, sulphur-dioxide cylinders.

Paddington Guardians.—For annual supplies: S. Maw, Son & Sons, for druggists' sundries, 12½ per cent. discount; J. F. Macfarlan & Co., for surgical dressings at 39½, 15s. 6d.

Southwark Borough Council.—Wright, Layman & Umney, Ltd., for malt and cod-liver oil in 1-cwt. quantities for their tuberculosis dispensaries. The Public Health Committee reported that about two dozen 1-lb. tins are given away weekly at the temporary dispensary at King James's Street, but it is anticipated that when the new dispensary is established the amount given away will increase considerably. Three firms were invited to send in samples and quotations, and Messrs. Wright, Layman & Umney's was selected as being the best.

Lambeth.—The Guardians have appointed the following to dispense the prescriptions of the district medical officers:

F. R. Barlow, 224 Loughborough Junction; Bato & Robinson, 125 South Lambeth Road; T. Beech, 156 Stockwell Road; Bennet & Co., 59 Camberwell New Road; Dan Davies, 34 Coldharbour Lane; Frank & Co., 11 Brixton Hill; W. F. Garry, Tulse Hill; F. H. Glew, 156 Clapham Road; Lewis & Burrows, 263 Wandsworth Road; W. E. Mason, 89 Acre Lane, Brixton; E. K. Monks, 106 Coldharbour Lane; A. Ness, 68 Brixton Road; Parke's Drug Stores, 1 Electric Avenue, Brixton; Price & Wardle, 290 Brixton Road; G. W. G. Robinson, 307 Raiton Road, Brixton; Shaw & Strachan, 69 Loughborough Road; L. B. Thornton, 100 Landor Road, Brixton; and John Timmins, 290 Clapham Road.

Camberwell (St. Giles's Guardians).—Corbyn, Stacey & Co., Ltd., for drugs at a discount of 38½ per cent. off quoted prices, with the exception of certain tinctures, to be obtained from the Apothecaries' Society, for the infirmary, as in previous years, at a discount of 22½ per cent. Hopkin & Williams, Ltd., for pure carbolic acid, glacial, for the infirmary, and Corbyn, Stacey & Co., for liq. cresolis saponatus, B.P.C., for the infirmary, at 4s. per gal. Robinson & Sons, Ltd., for bandages and lint. J. T. Smith & Nephew, Ltd., for cotton-wool, tow, borie lint, cyanide gauze, iodoform gauze, plain gauze, and pink jaconet. The existing contract with S. Maw, Son & Sons for surgical sundries, etc., is continued until Midsummer 1915 in respect of the purchase of surgical sundries at a discount of 10 per cent. off list prices, but that in respect of the purchase of instruments above the value of 17s. Messrs. Maw's catalogue be first compared with the catalogues of certain selected firms, and the goods required purchased from the lowest, after allowing for the discount.

William Purton Sentenced.

At the Bromley Police Court, on May 22, William Purton (63) was again brought up on the charge of incurring debts and liabilities with a number of tradesmen and unlawfully obtaining credit under false pretences and by means of fraud. (See *C. & D.*, May 23, p. 81.) Evidence was given by several tradesmen, and by Robert Lamb, a bailiff at Bromley County Court, who said he had served the prisoner with numerous summonses for debt, and had received thirty-five execution warrants against him. Each warrant was returned and marked, "No effects; goods property of wife." The prisoner asked the Bench to deal with him that morning, and pleaded guilty. Inspector Baker said nearly the whole of the time the prisoner had been in Bromley the police had received complaints about him, numbering about a hundred. Twenty years ago Purton was convicted of fraud at Penge. The Magistrates sentenced Purton to six months' hard labour.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Pharmaceutical Society of Ireland.

The latest dates for lodging applications for July examinations are as follows: Thursday, June 18, for the Preliminary examination; Wednesday, June 24, for the Pharmaceutical Licence examination; Monday, June 29, for the Pharmaceutical Assistant examination; Tuesday, June 30, for the Registered Druggist examination. Applications should be lodged with the Registrar by 11 A.M. on the respective dates.

Brevities.

Alderman Thos. McCully, J.P., Londonderry, retired chemist, has been re-elected a member of the Board of Guardians.

Mr. John Hartnett, Ph.C., received a presentation from his friends at Baltinglass on leaving to take up a position in Galway.

At the triennial Poor-law elections in Belfast on May 28 Mr. D. W. Elliott, Ph.C., Shaftesbury Square, was elected by a majority of 422.

Mr. William Hanna, J.P., Ph.C., and Mr. J. S. Balmer, registered druggist, have been elected on the general committee of the Bangor (Co. Down) Cottage Hospital.

Mr. R. F. Blake, public analyst, has applied to the Navan Board of Guardians for an increase of salary, which is at the rate of 4s. per sample, whereas his pre-

decessor, Professor Tichborne, was paid at the rate of 5s. per sample.

Among the firms which had stands at the Royal Ulster Agricultural Society's Show in Belfast last week were Thomas McMullan & Co. (Belfast), the North of Ireland Chemical Co., Cooper & Nephews (Berkhampstead), the Chilean Nitrate Committee, and the Potash Syndicate.

Mr. Samuel Gibson, J.P., druggist, King Street, Belfast, was a successful exhibitor at the annual show of the Ulster Agricultural Society in Belfast last week. In addition to winning the Ormeau Cup, presented by the Earl of Shaftesbury for the best Kerry or Dexter in the show, Mr. Gibson took four first prizes, two seconds, one third, and five reserved—all for animals bred on his farm at Summerhill, Dunnmurry.

Medicines for Tuberculous Patients.

At the monthly meeting of the Belfast Corporation on June 2, a report was read from the Tuberculosis Committee, submitting a copy of an agreement between the chemists and the Belfast Insurance Committee for the dispensing of medicines to insured persons, and asking that instructions be sent to the chemists, asking them to honour prescriptions signed by the Chief Tuberculosis Officer or his assistants on the same terms as those contained in the agreement with the Insurance Committee. The Chief Tuberculosis Officer was instructed to inform the Secretary to the Governors of the Forster Green Hospital that as the Corporation has taken over the Dispensary, 91 King Street, and are arranging with the chemists for the dispensing of medicines, the agreement with Messrs. Grattan & Co. may be determined in a month and, if necessary, continued after that date from week to week. The report was adopted.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Edinburgh.

Mr. J. Rutherford Hill has been taking an active part in the May meeting of the General Assembly of the United Free Church of Scotland in Edinburgh.

Mr. Thomas Stephenson, Ph.C., F.C.S., etc., editor and proprietor of "The Prescriber," sails on Saturday by s.s. *Mauretania* for a short business trip to the United States.

A botanical excursion of the Edinburgh Chemists', Assistants' and Apprentices' Association took place on Friday evening, May 29, to Redhall Quarry, under the leadership of Mr. W. B. Cowie, Ph.C., F.C.S.

At the Founder's Day celebrations in connection with George Heriot's School, Dr. R. Stewart MacDougall, a member of the Pharmaceutical Board of Examiners for Scotland, was presented with a badge of office to commemorate his three years' presidency of the Heriot Club.

Glasgow and the West.

At a meeting of the Lanarkshire Insurance Committee on May 26 it was stated that the cinematograph is being used to illustrate the treatment of consumption, and that a film has been exhibited in more than a dozen of the picture-houses in the county.

The new Houldsworth Homœopathic Hospital at 5 Lynedoch Crescent, Glasgow, which was opened on May 27, originated in a small dispensary which was started five years ago at 8 Berkeley Street, and owes its existence largely to the munificence of the Houldsworth family.

Mr. George Mackie, chemist and druggist, has acquired the old-established business of Wm. Wallace & Co. from Mr. Peter Irvine, Ph.C., who carried it on for the past seven years. Mr. Irvine's Rexall agency has also been transferred to Mr. Mackie, and will be carried on at 73 Renfield Street, Glasgow.

Professor Matthew Hay, M.D., Aberdeen, addressing the Society of Medical Officers of Health at Glasgow on May 31, said that the death-rate in Aberdeen has gone up since the passing of the Insurance Act, and that

Aberdeen tops the list in the matter of drug-consumption under the Act. This he stated as illustrating how misleading figures are.

The Falkirk Infirmary had 10 per cent. fewer outdoor patients last year, the decrease being attributed to the Insurance Act Medical Benefit. A scheme of improvements of the infirmary has been decided upon in order to house a modern x-ray apparatus presented by Mr. R. S. Sutherland, of Solsgirth.—At a meeting of the Hospital Committee of the Falkirk Town Council on May 12 Mr. E. MacPhie, chemist and druggist, offered to supply the hospital with drugs for the ensuing year, but after consideration the Committee agreed that Mr. D. Dunnet, chemist and druggist, Bainsford, should get the contract.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

New South Wales.

MR. ROBERT TOCHER, Ph.C., F.S.M.C., writing to the "South Grafton Clarion," gives information regarding the egg as a nerve food. As lecithin is so easily decomposed by heat, eggs should be cooked, he states, at a temperature under that of boiling water.

PHARMACEUTICAL SOCIETY.—At the meeting of the Council on April 17, Mr. F. P. J. Gray was re-elected President. A discussion took place regarding insurances effected by the Society for chemists, there being a suggestion that now that the Pharmaceutical Defence, Ltd., undertakes insurance work, the Society should give up insurance. Some members of the Society have threatened to resign if this work is continued, but the question is regarded by the Council as one of principle, and the insurance business is to be continued.

Queensland.

CIRCULARISING DOCTORS.—The Pharmaceutical Society regularly circularises medical men throughout the State regarding special preparations supplied by chemists. The latest circular is one about liquor cresolis saponatus, giving the formula and uses of the preparation, and concluding with the note "Why not bear it in mind when you are next ordering from your chemist?"

DRUG STANDARDS.—The Council of the Pharmaceutical Society has issued to its members a circular regarding drug standards and labelling under the Health Act, 1900-1911. The chief point of the circular is that the regulations which pharmacists are asked to carry out are those recommended by the second Inter-State Conference on Food and Drugs which reported last year (*C. & D.*, October 4, 1913, p. 43), and not the Food and Drugs Regulations referred to in the Health Act. The reason for this is that it is intended to adopt the recommendations of the Conference, and until this is done the Department of Public Health has agreed not to take action against pharmacists who follow the Conference recommendations rather than the State regulations. The circular which the Pharmaceutical Society has sent out gives the recommendations and some useful comments. For example, it is pointed out that if B.P. eucalyptus oil is sold the requirements regarding the declaration of phellandrene and eucalyptol do not apply, but the oil must be labelled as B.P. The list of drugs the presence of which has to be declared on the label includes several comparatively harmless substances, such as bromides, iodides, and hyoscyanus, and those included in the indefinite sentence "and other natural or synthetic or analgesic or antipyretic substances, or any reputed emmenagogue or reputed abortifacient substance." The interpretation of the words we have printed in *italics* should provide plenty of work for lawyers.

Victoria.

THE GOVERNMENT ANALYST'S REPORT states that a packet of Cooper's sheep-dipping powder, submitted for

analysis, was found to contain 38.15 per cent. of arsenic sulphide. A sample of Quibell's sheep-dip on analysis had been found to contain the equivalent of 10.37 per cent. of phenolic compounds, and a sample of Cooper's fluid disinfectant to contain equal to 33.64 per cent. of phenolic compounds. Several proprietary preparations which had been forwarded for analysis had been found to contain scheduled poisons.

CHLORODYNE LOZENGES.—At the meeting of the Pharmacy Board on April 8, an application was received from Mr. D. A. Greenlees for the Board's authority to allow grocers and confectioners to sell commercial-grade lozenges and pastilles stamped "Liquorice, Linseed, and Chlorodyne Lozenges." He contended that there is very little chlorodyne in this grade of lozenge, and that there would be no danger to the public if confectioners were allowed to sell them. Mr. Buckhurst said that it would be a very dangerous thing to allow the general public to know they were taking chlorodyne in lozenges which could be bought at confectioners' shops. If the Board allowed the use of the word "Chlorodyne" in this instance, other makers would put a stronger lozenge on the market. Mr. Towl said that if the lozenge were labelled "Chlorodyne" and it did not comply with the official tests, it would be a breach of the Pure Foods Act. The Registrar reported that he had had a sample of the lozenges analysed, and that no morphine had been discovered. It was resolved that Mr. Greenlees be informed that the Board could not allow the use of the word chlorodyne, but had no objection to the lozenges being branded "L.L. and C. Lozenges," or to their sale by confectioners provided they did not contain morphine or any other scheduled poison.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

THE SALE OF PHARMACIES.—M. Valentin, of the Pharmacists' Association of the Nord Department, has proposed to his colleagues to found an Association Registry for the sale and purchase of pharmacies. He points out that the steady diminution in the number of pharmacy students is a most serious matter for those who have businesses to sell, and the difficulty in disposing of pharmacies is very great.

THE BRAZIL CUSTOMS TARIFF.—A collective letter has been addressed to the Minister of Foreign Affairs on the proposed new Brazilian Customs Tariff by the Associations of Chemical and Pharmaceutical Manufacturers, Druggists, Perfumers, and Colour and Varnish Dealers. The Minister's attention is specially directed to the fact that it is proposed to levy the new tariffs on the gross instead of the net weight of articles. Alkaloids, synthetic products, the salts of precious metals, colloidal compounds, biological products, serums and vaccines would be especially affected by this innovation. The petitioners want the net weights as the basis, and to adjust the duty according to the value of the goods.

AN IMPORTANT DOCUMENT, discovered by Dr. Dorveaux, librarian of the Paris School of Pharmacy, was cited by M. Honorat in his recent lecture on "French Pharmacy Law." This was the decree of the Paris Court of Parliament, dated July 29, 1559, referring to certain abuses which had crept into the Guild. Profiting by the fact that the sons of master apothecaries had an hereditary right to be "received" without preliminary *chef d'œuvre* or practical examination, certain wardens admitted children of thirteen and fourteen as having satisfied the conditions of apprenticeship. Happily, Nicolas Houel, a young master apothecary, who was also a warden, stepped into the breach and strangled the abuse. After a lawsuit lasting several years, he succeeded in obtaining a decree that no apothecary should be "received" till he had turned twenty-five and had served a ten-years' apprenticeship, while the obligation of the *chef d'œuvre* was extended to the sons of master apothecaries. Nicolas Houel subsequently became the founder of what is now the Paris School of Pharmacy.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Province.

PHARMACEUTICAL SOCIETY.—The fourth annual dinner of the Cape Province Pharmaceutical Society was held in Cleghorn's Café, Castle Street, Cape Town, on May 13. Mr. G. R. Cleghorn (President) was in the chair, and among those present were Dr. C. F. K. Murray, Dr. D. Bennie Hewat, Dr. Currie, Messrs. Sowden, Dell, Palmer, Hopkins, Scott, Blake-Jardine, and W. K. Mager (Queenstown), and others. After the loyal toasts had been honoured, Dr. Hewat proposed "The Pharmaceutical Society of the Cape Province." Referring to the question of hours, he said it was necessary to deal with that matter, because the Provincial Council is to introduce a Shop-hours Bill next year, and if the profession wished to be dealt with properly by the public they must take some action to protect their interests. There is no doubt that at present chemists work all sorts of hours, and that condition of things keeps the right type of young man from joining their ranks. The doctor also spoke of the need for proper training for those entering the profession. Technical training is an absolute necessity in the pharmaceutical profession, and it can only be got with a proper technical institute properly equipped and staffed by trained teachers. The Chairman, responding to the toast, agreed that the principal matter needing their attention is that of shop-hours. Those worked by chemists in the Cape are entirely disproportionate to the hours in other parts of South Africa. He thought they should have a general system of closing early. He agreed that the system of technical schools should be extended, as the need for them was greater than ever before. In proposing the toast of "Our Guests," Mr. J. Sowden said that members of the Pharmaceutical Society always wished to know what members of the medical profession thought about them. Dr. C. F. K. Murray replied and agreed that the hours worked are too long. The toast of "The Press" was proposed by Mr. J. Scott and replied to by Mr. A. Palmer, of the "South African Review." The health of the Chairman was proposed by Mr. Blake-Jardine and drunk with musical honours.

Natal.

Our Cape correspondent, writing from Durban with reference to the note in our issue of April 18 as to Messrs. Oliff Bros.' business, states that their retail department only is closed, and the wholesale will be continued as usual. Extra space has been acquired and the manufacture of local medicines and the packing of specialties for the trade will be a feature in their business.

Orange Free State.

MEDICAL AND PHARMACY COUNCIL.—At the monthly meeting of the Council held on May 8 the following members were present: The President (Dr. A. B. Ward), Drs. de Kock, Friedmann, Johnson, Pretorius, and Domory; Mr. Whiteside (dental member), and Messrs. S. S. Hewitt and A. McMurray (pharmaceutical members). The President referred to the death of Mr. Alexander Fowle, one of the pharmaceutical members, who had been a member of the Council for a considerable period. The Council had lost a valued member who could ill be spared. The following unopposed motion was then put from the chair and carried by the members standing:

That the Medical and Pharmacy Council of the Orange Free State desires to place on record its deep regret at the loss it has sustained by the sudden death of Mr. Alexander Fowle, one of its pharmaceutical members, while yet in his prime, and to express its sincere sympathy with his relatives in their bereavement.

The Secretary referred to a voluminous letter received from Mr. Hannah, of Amersfoort, forwarding a copy of a petition for leave to appeal to the Privy Council

against conviction for practising without registration as a medical practitioner in the Transvaal. The Secretary was instructed to acknowledge receipt.

Transvaal.

SATURDAY HALF-HOLIDAY.—Feeling is running high among chemists in Johannesburg against the proposed change of weekly half holiday from Wednesday to Saturday, as suggested by the Provincial Council.

PRICE PROTECTION.—A meeting convened by the Pharmaceutical Society of the Transvaal, to which all retail chemists in the State were invited, was held at the Grand National Hotel, Johannesburg, on May 7, when the revised retail price-list and regulations were submitted for approval. Mr. Christie (President of the Pharmaceutical Society), presided over an assembly of about seventy. Among those present were Messrs. H. Wheelton (Lennon, Ltd.), R. A. King (Local Secretary P.A.T.A.), W. H. Cross (Hon. Secretary of the Pharmaceutical Society), J. Sanderson, C. Keir, Brande, Lipschitz, and Johnstone (Transvaal Drug Co.), Sive and Karnovsky (Sive Bros. & Karnovsky), A. Rennie, A. Anderson, H. M. Hetherington, A. Anderson, L. R. Tibbitt (Pretoria), Miller, Meyerson (Pretoria), Greig (Norwood), Whyto (Roodepoort), Keating, Ingram, Camie, Paterson, Gunn, D. K. Petersen (Petersen, Ltd.), E. L. Ralling, E. Solomon, B. Owen Jones (Boksburg), A. Barker, E. R. Bull, A. W. Ashkanazy, Colebank (Maraisburg), J. Murray, Braes, D. L. Isaacs, and Spero & Ventham. The President, in opening the proceedings, said, it is advisable for all retail chemists to take concerted action to protect prices and put an end to the absurd cutting which at present is in vogue in the Transvaal, and especially in Johannesburg. This iniquitous system had dealt a severe blow to the trade in general, and for the protection of all concerned a committee, comprising the Council of the Pharmaceutical Society, representatives of the wholesale houses, and members of the P.A.T.A. Executive, had, at the request of 98 per cent. of the retail chemists, worked together to produce a revised price-list and framed regulations which, with the co-operation of the wholesalers, it should be possible to enforce. The various items contained in the regulations were freely discussed by several of those present, and on being put to the vote the regulations were agreed to with only two dissentients. The revised price-list was then considered and agreed to unanimously. The new list will come into operation at an early date, and it is hoped that a hearty compliance with the list will prove a boon to Transvaal chemists.

Our American Letter.

(Special Correspondence to the "C. & D.")

A European Tour.—Under the auspices of the German Apothecaries' Society of New York, a European tour has been arranged during July and August. The itinerary will include visits to Berlin, Leipzig, Dresden, Vienna, Nuremberg, Munich, Lucerne, Strassburg, Heidelberg, Darmstadt, Frankfurt, Wiesbaden, Cologne, and Paris, and members of the party may make side-trips at their own expense, rejoining the tour later wherever and whenever convenient to them, or may return independently within one year from date of leaving New York.

Proprietaries in the Philippines.—Although British trade in medicinal products with the Philippine Islands is much smaller since the American annexation, it is of interest to note that a new law to deal with the sale of patent and proprietary medicines has been promulgated by the Philippine Legislature and becomes effective on July 1. Much opposition is being evinced by American manufacturers of these products, owing to the fact that they are compelled to label their goods with the full formulas, expressed both qualitatively and quantitatively "in the language, descriptions, and abbreviations of the U.S.P. or other accepted Pharmacopoeias or formularies." The only exemptions permitted are in favour of prescriptions representing the private formulas of legally qualified physicians practising in the Philippine Islands. It is anticipated that an appeal will shortly be made by the proprietary-medicine interests to the Secretary of State in Washington for some modification of the provisions of this law, which, if enforced in its present form, would cripple the business of all secret-formula products.

LEGAL REPORTS.

TRADE LAW.

White Pepper.—The Liverpool white-pepper case (*C. & D.*, March 23, p. 59), which was to have come on on June 3, was by consent further adjourned for another week.

Taxibility of Employers.—A case of importance to traders employing motor-drivers will come before a specially constituted King's Bench Divisional Court next term. It is the Crown Paper case of the *L.C.C. v. Perry*, and raises a question as to the taxibility of employers for such male servants under the Inland Revenue Act, 1869. Already there have been four decisions on the point, and the Judges have expressed different opinions.

"Gripe Water."—A case is down for hearing as soon as the Law Courts reassemble after the Whitsun recess in which William Woodward, Ltd., seek an injunction to restrain Boulton Macro, Ltd., from infringing their registered trade-mark "Gripe Water." An interim injunction is being applied for in the first instance, and the case promises to be of considerable trade interest if it proceeds to a further stage than the preliminary one. The defendants say in a circular: "If Messrs. Woodward's contention is correct, it follows that the only preparation that the retail chemist may supply when his customers demand gripe-water is the one manufactured by Messrs. Woodward."

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"ANZORA" TRADE-MARK.

A motion for judgment by the plaintiff in the case of *Lewis v. Vine* was heard by Mr. Justice Joyce in the Chancery Division on May 26. Mr. Sebastian (for the plaintiff) said the action was before his Lordship some time ago on a motion, and an interim injunction was then granted to restrain the use of the word "Onsoria" as an infringement of the plaintiff's trade-mark "Anzora." The defendant now appeared in person to consent to judgment in the action and so settle up the whole affair. Counsel added that the plaintiff was not asking for costs or damages, and Mr. Justice Joyce entered judgment by consent accordingly.

Medicine-stamp Act, 1802.

SELLING DUTIABLE MEDICINES ON THE STREET.

Before Sheriff A. G. D. Thomson at Glasgow Sheriff Court on June 3, Vincent Bull-Sergeant was summoned, at the instance of the Commissioners of Customs and Excise, for (1) selling a packet of "Oberju" pellets (a dutiable medicine) unstamped, and (2) selling the same without a licence. Respondent pleaded not guilty.

Mr. M. J. McDonagh, an officer of Customs, giving evidence on the first charge, stated that on February 25 in Govan Road, Glasgow, he saw the respondent drive up in a one-horse carriage and address a number of workmen, to whom he offered packages from a bag, and represented that they would cure a lot of things. Several of the onlookers bought one of the packages. Along with each was given a souvenir in the shape of a puzzle. Witness bought a packet, and told the accused that he was selling a patent medicine without the necessary stamp, and said he would report the matter to the Commissioners of Customs and Excise. The respondent then said that he had been going all over Scotland for years, and had never been questioned before. Witness consulted Mr. Fairs, the Surveyor of Customs, and together they opened the packet, and found that it included a couple of leaflets containing a list of the ailments which the pellets were said to cure.

Respondent, addressing the witness, asked: Do you swear that you heard me say that I would sell the pellets for a shilling and give the puzzle as a present?

Witness: Yes, I do.

Corroborative evidence was given.

The respondent, in evidence, stated that he was not aware that each packet required a stamp. He had sold the medicine on many occasions in Scotland, and as he had never been interfered with he was amazed when the

officer challenged him. He was informed that it had been decided in a case in Edinburgh that no stamp was required if the sales were made from a vehicle. He was most willing to put a stamp on each packet. Replying to Mr. David Stevenson, who prosecuted, respondent said he did not make the pellets. He was only an agent for the sale of them. He now knew that quite a number of chemists in the city sold the medicine in question at 1s. 1½d. His object was not to undersell those chemists. What he did was to sell the puzzle and make a present of the medicine. He did not know what his company paid for the medicine.

Mr. Stevenson submitted that this was simply an attempt to evade the Act, and undersell the legitimate chemist.

His Lordship found the charge proved, and imposed a fine of 5*l.*, with the alternative of ten days' imprisonment. On the second summons he was fined 1*l.* It transpired that the respondent had a licence to sell at 80 Great Clyde Street, but Mr. Stevenson pointed out that this was only for business premises. It would be quite as reasonable for a publican to go on the street selling whisky or beer.

Licensing Consolidation Act, 1910.

SALE OF WINCARNIS WITH QUININE.

At the Bradford City Police Court on May 29, Oliver Hobson, manager of the shop of Messrs. J. Savage & Co., Ltd., 658 Manchester Road, Bradford, was summoned, at the instance of the Chief Constable (Mr. Joseph Farndale), for selling wine by retail without a justices' licence. Mr. J. G. Gunter, prosecuting solicitor to the Corporation, conducted the case for the prosecution, and Mr. C. H. Kirby, solicitor to the Chemists' Defence Association, appeared on behalf of the defendant.

Mr. Gunter said the proceedings were instituted under Section 65 of the Licensing Consolidation Act, 1910. On Thursday, April 2, Inspector Challond visited the shop managed by the defendant and purchased a bottle of "Wincarnis with quinine," and ascertained that the defendant had not a justices' licence to sell wine. He (Mr. Gunter) referred the Bench to the definition of intoxicating liquor as laid down by the 1910 Act and the definitions of wine laid down in the Finance (1910) Act. Wincarnis, he said, is a Spanish wine with the addition of some meaty extract and one grain of quinine to one ounce of fluid, and the fluid in question contained 14.82 per cent. of alcohol by weight, corresponding to 18.25 per cent. of alcohol by volume.

Inspector Challond proved the purchase.

Mr. F. W. Richardson, F.I.C., Bradford public analyst, proved the analysis of the constituents of the liquid purchased. He characterised the liquid as port wine on account of the ethers which were present in it and other characteristics distinguishing it from a malt liquor.

Mr. Kirby: Do you call this wine?—Mr. Richardson: Yes, wine *plus* quinine *plus* meat extract.

Do you say that the whole is wine?—I say that it is wine which contains certain substances foreign to wine; a wine *plus* other constituents; a proprietary wine; a special preparation made with wine as a solvent.

For the purposes of the Licensing Act, would you call this wine?—Yes.

Would it, in your opinion, make glad the heart of man?—I should not like to answer that question.

You know that the quantity of sulphate of quinine to the fluid ounce in this Wincarnis is exactly the same as the quantity in the quinine-wine of the British Pharmacopœia?—Yes.

Do you say that that quinine-wine of the B.P. is a wine under the Licensing Act?—I do not regard orange-wine as a true wine. I take true wine to be made by the fermentation of grape-juice.

Continuing to answer questions by Mr. Kirby, Mr. Richardson said he would not regard iron-wine or ipecacuanha-wine as a wine in the sense of a wine under the Licensing Act. He agreed that Wincarnis with quinine was not sufficiently palatable to be regarded as a beverage, and he agreed that it was not a beverage at all. If he took it at all he should take it as medicine. He agreed that as regards the alcoholic strength some of the Pharmacopœia wines were higher than that of this

Wincarnis and some of the Pharmacopœia tinctures were very much higher. But he would not call these tinctures wines because they were made from a solution of alcohol without any special extractives or ethers, which are necessary in the composition of wine.

Mr. Kirby called as his first witness Mr. Maurice Bartholomew Scandon, surveyor of Excise for the district, who had been subpoenaed, and whom he asked to read the instructions which he had received from the Board of Customs and Excise in regard to such preparations as that concerned in the present case.

The Chairman of the Bench (Mr. S. P. Unwin) ruled that this was not evidence, and said that the Court was the judge whether this was a wine or not independently of the Excise Department or any other department.

Dr. Herbert Decarle Woodcock, in practice at Leeds for twenty-nine years, said he regarded Wincarnis with quinine as a medicine, had prescribed it as such, and knew that other doctors did so. They gave it as a medicine in cases of debility where there had been shock or great depression, and they found it of great benefit.

The Magistrates' Clerk (Mr. Greaves) : Is this material?

Mr. Kirby : Surely upon the question whether it is a wine or not, for my case is that it is not a beverage, but a medicine.

The Chairman : I do not think it is very material.

Mr. Kirby : I should have thought that that was the exact issue.

Dr. Woodcock, in answer to further questions, said this liquor was not palatable, but abhorrent. It would not be likely to induce a taste for alcoholic liquors in a patient or to cause intoxication unless someone drank a bottleful.

Mr. Marmaduke Firth, chemist, North Parade, Bradford, said that though he did not himself sell Wincarnis with quinine, he regarded it as a medicine. No one could take it as a beverage because it was intolerably nasty to the taste. Cross-examined by Mr. Gunter, Mr. Firth said he considered that if a thing was not a beverage it could not be a wine in the generally understood sense of the term. He did not mean that this was a medicine merely because it was nasty to the taste, but the addition of the quinine made it a medicine.

The Chairman said it appeared to him that the question of what was nasty and what was not was merely a matter of individual taste.

The defendant then gave evidence. He stated that he had sold Wincarnis with quinine in Bradford and other places both with a wine-licence and without, and he had never known anyone take it for its alcoholic properties or get drunk upon it, or even acquire a taste for alcoholic liquors by reason of its use.

Mr. Kirby said that upon the evidence he had to submit that the article in question was not wine within the meaning of the Licensing Acts. The real test was by way of the question whether it was a beverage or a medicine. The evidence even of the prosecution was that it was so unpalatable that people would not take it as a beverage. If it was not a beverage but a medicine it was outside the scope of the Licensing Acts. There were also other ways of testing the question. If someone were brought before the Bench, in a case under the Food and Drugs Act, who had sold Wincarnis with quinine in response to a demand for wine, he thought their Worship would have no hesitation whatever in saying that what he had sold was not of the nature, substance, and quality demanded, and that the sale was, therefore, to the prejudice of the purchaser—in other words, that it was not a sale of wine. In the case of beer containing even a fractional part of a grain of arsenic, that had been held to have been a sale of an article not of the nature, substance, and quality demanded; and in the case of butter which contained an addition of milk the same view had been taken. Take another test. Supposing a shipper of wine contracted to supply a merchant with wine, assuming the kind of wine was not specified, and this Wincarnis was supplied, no Court would hesitate to say that the merchant was entitled to reject the goods. If it were to be contended that the definition of wine under the Licensing Act was different from that under the Sale of Goods Act or the Food and Drugs Act, then

his answer to that was that the description under the Licensing Act was even narrower than that under either of the other two Acts. Mr. Gunter had referred to the definition under the Finance Act, 1910. That was wine imported into Great Britain or Ireland. Clearly this Wincarnis as a whole did not come within that definition. Then under the Licensing Act there are two kinds of wine-licences. A man might hold a licence to sell foreign wines or a licence to sell sweets. Clearly this Wincarnis was not within either category. Carrying the argument further he quoted, in support of his view, Section 1 of the Licensing Act, 1910—which, he said, did not of itself authorise the sale of any liquor which came within the Act, but only authorised the obtaining of a particular Excise licence by a particular person—and Section 42 of the same Act, which prescribes the form of the justices' licence, and Section 65, which had been read by Mr. Gunter. The Licensing Act, so far as the Justices were concerned, simply dealt with authorising a particular person at a particular place to hold a particular Excise licence. That was the full extent of the authority which was given by the justices' licence. If the contention of the prosecution were right, that a man wanting to sell the liquor in question must get a justices' licence for it, he had to make up his mind which of the two forms he would apply for, either the wine-licence or the sweets-licence, and Mr. Gunter had not thrown any light—and he ventured to think that it was not possible for him to throw any light—upon the question which of these two licences would authorise a man to sell this particular article. He suggested that the reason of his friend's inability in that matter was that indicated by the statement on the label on the bottle, "Made with choice wine and containing one grain of quinine to the ounce to meet the requirements of the Board of Inland Revenue." A further point he made upon the definition of intoxicating liquor contained in Section 110 of the Licensing Act of 1910 and Section 111, the effect of which, he urged, was that even if the Bench held that this particular article was within the general provisions with regard to wine under the Licensing Acts and the Excise Acts, he submitted that the exemptions contained in those Sections took Wincarnis with quinine out of the scope of the need for the justices' licence. Finally, he wished to say a few words as to the purposes which the Licensing Acts were designed to serve. These were surely in the first instance consideration of public order and, secondly, revenue. The first consideration obviously did not apply in this case, and as to the second he submitted that that was one wholly for the Commissioners of Customs and Excise. As the Commissioners did not regard the article in question as being within the class of articles which required a licence, then the consideration of revenue did not apply, and he would remind the Bench that if it did the revenue derived from the medicine-stamp upon the bottle was a much more material matter than the licence-duty which would have to be paid by a defendant like the present one, the annual value of whose premises is only 25/.

Mr. Gunter said his submission to the Bench was that this article could not be legally sold without an Excise licence, inasmuch as Section 111 of the Licensing Consolidation Act, 1910, set out a long list of exemptions in respect of articles which did not require an Excise licence to enable them to be sold, and as the Legislature had been so careful as specially to set out so many exemptions it must have purposely intended to include wine. If the Legislature had had any idea of including wine in the exemptions it could most easily have been added in that exemption section.

The Chairman said the Bench had carefully considered this matter, which seemed to be a test case. They thought it was rather remarkable that the point had not been brought up more often before. They had come to the conclusion that this mixture was wine, and that it could not be legally sold without a justices' licence. A penalty of 3/., and 17s. 6d. costs, would, therefore, be inflicted.

In answer to Mr. Kirby, the Chairman said the Bench would be very glad to give every possible facility for appeal if the defendant decided to take that course.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

YORK DIRECT SYNGON SUPPLY, LTD. (P.C.).—Capital 2,000/. The first directors are R. W. Shepard, G. C. Woods, and S. H. Shepard. R.O. Trinity Lane, Micklegate, Yorks.

SODA FOUNTAIN MANUFACTURING CO., LTD. (P.C.).—Capital 500/. The first directors are J. L. Atkinson and T. Atkinson. R.O., Viaduct Works, Hyndburn Road, Accrington, Lancs.

BRITISH AND COLONIAL LEAD CO., LTD. (P.C.).—Capital 2,000/., in 1/ shares. Objects: To carry on the business of manufacturers of and dealers in paint, pigments, lead, lead oxide, etc. Solicitor, G. W. Edwards, 6 Castle Street, Liverpool.

HUMPHRY & HEPPLE, LTD. (P.C.).—Capital 1,000/. Objects: To carry on the business of manufacturers of and dealers in artificial teeth and dental preparations, etc. The first directors are G. Hepple and S. Humphry. R.O., 14 Oak Street, Abertillery.

MATTE NON-ALCOHOLIC BEVERAGE SYNDICATE, LTD. (P.C.).—Capital 9,000/. Objects: To acquire the right to manufacture, sell, and deal in "Seket Bronte" or "Sparkling Matador." Solicitors, Crucesman & Rouse, 85 Gracechurch Street, London, E.C.

VULKLENO, LTD. (P.C.).—Capital 1,000/., in 1/ shares. Objects: To carry on the business of chemists, importers, and manufacturers of and dealers in chemical preparations and articles, etc., and to adopt an agreement with J. A. Malcolm. R.O., 58 Lombard Street, London, E.C.

FREDERICK PUCKRIDGE & NEPHEW, LTD. (P.C.).—Capital 10,000/., in 1/ shares. Objects: To take over a business of gold-beater skin manufacturers. The first directors are A. W. Grantham, Mrs. A. A. K. Carr, Miss B. P. Grantham, I. Carr, and F. T. Barnes. R.O., 96 Upper Clapton Road, London, N.E.

RELANCE TEETH MANUFACTURING CO., LTD. (P.C.).—Capital 5,000/. Objects: To take over the business carried on by J. Grave at 13 Celtic Road, Great Meols, Cheshire, as the Imperial Dental Manufacturing Co. The first directors are J. Grave (permanent director and chairman), J. G. Cowman, E. Rigby, G. Rigby, and D. C. Sharpe.

JOHN MARLAR & SON, LTD. (P.C.).—Capital 500/., in 1/ shares. Objects: To carry on the business of wholesale and retail chemists, druggists, wine-merchants, etc., and to take over the business carried on at 49 and 51 High Street, Halstead, as John Marlar & Son. The first directors are J. Marlar, T. E. Young, and Maria L. Marlar.

MERTHYN M. WILLIAMS, LTD. (P.C.).—Capital 1,000/., in 1/ shares. Objects: To carry on the business of wholesale and retail makers, proprietors, and vendors of remedial and toilet preparations and patent medicines, chemists, druggists, etc. The subscribers are G. M. Williams, 49 Lamb's Conduit Street, W.C., manufacturing chemist; and R. W. G. Shepherd.

BELGRAVE CHEMICAL CO., LTD. (P.C.).—Capital 1,200/., in 1/ shares. Objects: To acquire the business carried on by F. G. Stephenson as a fire-lighter and firewood manufacturer at Belgrave Road, Birmingham, under the style of the Belgrave Chemical Co., and to carry on the same and the business of manufacturing chemists, wood-workers, dealers in chemicals, etc. R.O., 47 Pershore Street, Birmingham.

Company News.

RADIUM TREATMENTS, LTD.—Mr. F. P. Baxter, 174 Mansion House Chambers, London, E.C., was appointed receiver on May 21.

PLANTS PLANTOIDS, LTD.—A winding-up petition, presented by the Standard Tablet and Pill Co., Ltd., Hove, has been directed to be heard by Mr. Justice Astbury in the High Court of Justice, London, on June 9.

"CHEMICAL AND DRUG ISSUES" is the title of an article in the "Financial News" of June 2. It deals with the following companies: A. Boake, Roberts & Co., Borax Consolidated, Brandram Brothers & Co., Brunner, Mond & Co., W. J. Bush & Co., Castner-Kelner Alkali, Evans Sons Lescher & Webb, Johnson, Matthey & Co., Kembell, Bishop & Co., Stevenson & Howell, and United Alkali.

ELECTROLYTIC ALKALI CO., LTD.—The liquidator (Mr. Wm. H. Alexander, C.A.) has issued a circular letter, in the course of which he states that, subject to the adjustment of certain outstanding claims, a dividend of about 9s. in the pound will be paid to ordinary creditors, and that there

can be no return to the preference and ordinary shareholders of any portion of their share capital. The liquidator does not expect to be in a position to declare a dividend before October next.

A. J. WHITE, LTD.—The report of the directors states that the net profits for the year amounted to 30,550/., 8s. 10d. The directors recommend the payment of a final dividend of 6 per cent., making 10 per cent. for the year, leaving a balance of 9,619/., 14s. 2d., to be carried forward. The balance-sheet contains the items goodwill, trade-marks, etc., at 275,443/., 8s. 9d.; stock, plant, machinery, etc., 14,880/., 10s. 7d. The annual general meeting is to be held on June 12 at the Memorial Hall, Farringdon Street, London, E.C.

BIRTHS.

Authenticated notices are inserted without charge.

GIBSON.—At Cubby, Deramore Drive, Belfast, on May 24, the wife of W. J. Gibson, registered druggist and President of the Chemists and Druggists' Society of Ireland, of a daughter.

RICKARD.—At 74 Hazledene Road, Chiswick, W., on May 29, the wife of Reginald Rickard, Ph.C., of a son.

SANDERSON.—At Bridge Street, Ballymena, on June 1, the wife of J. Sanderson, registered druggist, of a son.

SAVAGE.—At 8 St. Margaret's Terrace, Bradford, on May 31, the wife of Frederick C. Savage (of J. Savage & Co., Ltd., wholesale chemists), of a son.

SWEENEY.—At 19 Paisley Road, Barrhead, on May 30, the wife of James Sweeney, chemist and druggist, of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

DAVIES—PHIPPS.—At St. John's, Bognor, on June 2, Charles Davies, chemist and druggist, to Louie Phipps.

HINRICHS—FERGUSON.—At the Tontine Hotel, Greenock, on June 1, by Rev. John Young, B.D., Union Street United Free Church, Greenock, assisted by Rev. Peter McGregor, M.A., West United Free Church, Greenock, Andreas C. Hinrichs (Messrs. Parke, Davis & Co.) to Ethel May, only daughter of the late Charles E. P. Ferguson, Clydesdale Bank, Glasgow, and of Mrs. Ferguson, 8 Esplanade, Greenock. [Mr. and Mrs. Hinrichs are to reside at 18 Lucknow Avenue, Nottingham.]

HODGSON—ATKINSON.—At St. Laurence Church, Middleton-St.-George, on June 3, by the Rev. W. A. Blackwall, M.A., assisted by the Rev. R. E. Ragg, John E. Hodgson, Ph.C., Darlington, to E. M. Atkinson, elder daughter of Mr. G. D. Atkinson, of Middleton-St.-George.

DEATHS.

Authenticated notices are inserted without charge.

BALKWILL.—At 2 Lipson Terrace, Plymouth, on June 1, Mr. Alfred Payne Balkwill, Ph.C., aged seventy-nine. Mr. Balkwill's father, Mr. J. H. Balkwill, was a chemist, having been the successor in the business founded by William Cookworthy, who discovered the method of making china, which up to then was not known outside China. The business of Balkwill & Co. in Old Town Street, Plymouth, is one of the best known in the West of England, and it was with this pharmacy that Mr. Balkwill had been connected during his business life. He passed the Major examination in 1868. When the British Pharmaceutical Conference met at Plymouth in 1899 Mr. Balkwill was one of those who welcomed the members. He was a member of the Society of Friends, and took an active part in many schemes devised for ameliorating the social conditions of the people. Some three years ago Mr. Balkwill suffered from a serious illness, which left him considerably weakened. This was followed some six months ago by a fall, which necessitated him keeping to

his bed. Since then his life has slowly ebbed away. The funeral took place on June 4. Mrs. Balkwill survives her husband.

HART.—At Morecambe, on May 27, Mr. Frank Hart, Ph.C., of James Hart & Son, 130-132 Newport Street, Bolton, aged forty-eight. Mr. Hart had been ailing since Christmas, and six weeks ago went to Morecambe in the hope of benefiting, but he died there. He was a son of the late Mr. James Hart and passed the Minor examination in October 1887 and the Major in April 1889, ultimately succeeding to his father's business. Mrs. Hart survives him, with a daughter and two sons.

JOHNSTONE.—On May 27, Mr. Walter Johnstone, chemist and druggist, Cromarty, aged seventy-three.

LEE.—At 37 Avondale Road, Southport, Mr. Joseph Lee, chemist and druggist, aged sixty. Mr. Lee was apprenticed to Mr. Garside, the first chemist to open a shop in Southport, and, after further experience in Liverpool, passed the Minor examination in 1874. He was in business in Tyldesley until 1889, when he retired to Southport.

POTBURY.—At Bootle, on May 12, Mr. Benjamin Charles Potbury, chemist and druggist, aged seventy-one.

WADE.—At 55 High Street, Sidcup, on May 28, Mr. Walter Wade, chemist and druggist, aged sixty-eight. Mr. Wade had lived at Sidcup for thirty-four years, going there from New Cross, London, S.E., where he had been in business for nine years. Mr. Wade took much interest in public affairs at Sidcup, and was one of the first members of the Parochial Committee and was on the first Parish Council. The esteem in which Mr. Wade was held by his fellow-townsmen was long ago (1885) testified to by a presentation made to him by the Tradesmen's Association in recognition of the valuable services rendered by him. He was a prominent Freemason, and was the first secretary of the Sydney Lodge, of which he was a founder.

WILLS PROVEN.

An inventory of the estate of the late John Cuthbertson Pendrigh, chemist and druggist, High Street, Sanquhar, has been lodged with the Sheriff-Clerk of Dumfries, and shows estate valued at 1,591*l*.

MR. ROBERT JONES, retired chemist, Cefn Enrys, Llandwog, Carnarvon, who died on April 26, left estate of the gross value of 17,337*l*. 3*s*. 8*d*., of which 16,217*l*. 3*s*. 8*d*. is net personality. Mr. Robert Williams, Turf Square, Carnarvon, chemist and druggist, is one of the executors, to whom 50*l*. is bequeathed.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

BOOTS, LTD., have opened a handsomely fitted branch in High Street, Rhyl.

MR. D. R. DAVIES, chemist and druggist, has opened a pharmacy in St. Helen's Road, Swansea.

MR. A. J. S. STEWART, chemist, has purchased Mr. Cleasby Chorley's business at New Malden, Surrey.

MR. F. BIRCHALL, pharmacist, has succeeded to the business of Mr. H. V. Truman, Market Square, Wickham, Hants.

MR. G. A. HEEBLETHWAITE, chemist and druggist, has removed from 67 Church Street, Drypool, Hull, to 22 Holderness Road, Hull.

MR. H. W. VANES, pharmacist, has purchased the business of Mr. James Allen, Clarence Park Pharmacy, Severn Road, Weston-super-Mare.

MR. JOHN LOUIS JUSTIN CARTER has retired from the business of Carter & Sons, wholesale chemists, Attercliffe Road, Sheffield, which will be continued by Messrs. Tom and Geoffrey Cecil Carter.

MR. A. WILLIAMS, pharmacist, has opened a pharmacy at Queen's Road, Peckham, London, S.E., where the late Mr. F. W. Sandy, chemist and druggist, had a business until it was acquired by the London County Council for improvements.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. HENRY MASTERS, representing Messrs. Allen & Hanburys, Ltd., has removed to 3 Victoria Crescent, Eccles.

MR. ANTHONY TATE, Belgrave Mansions, Grosvenor Gardens, S.W., has been spending the past few weeks in Spain, and is returning in improved health.

DR. F. SASTRE Y. MARQUES, Barcelona, has been appointed Decano de los Subdelegados de Farmacia (Senior of the Pharmacy Commissioners) of Barcelona.

MR. F. A. UPSHER SMITH, Ph.C., who was Bell scholar in 1896 and Pereira medallist in 1893, is now conducting the Rice Street Pharmacy at St. Paul, Minn., U.S.A.

SIR ALFRED MOND finds it necessary to deny a rumour that a peerage is about to be conferred upon him. "There is absolutely no foundation for the announcement," he states.

MR. R. R. HALLAWAY, Ph.C., 5 Devonshire Street, Carlisle, has been appointed a member of the Committee of the local Shopkeepers' Association. His father, Mr. John Hallaway, Ph.C., has retired from business.

MR. THOMAS B. MORSON (Morson & Son, 14 Elm Street, London, W.C.), who has been acting as Secretary to the Chemical Industry Club for several years, has agreed to act also as Secretary to the London Section of the Society of Chemical Industry, in succession to Mr. Coste.

MR. G. S. V. WILLS, Principal of the Westminster College of Pharmacy, is removing the residential portion of the premises in July to Clapham Park, in order to enable him to utilise the whole of the building for educational purposes at the commencement of the next session, August 18.

MR. PHILIP JOSEPHS, of 93 Old Street, E.C., and "Quisiana," Woodside Park, N., has been elected captain of the Highgate Golf Club. His year of office was inaugurated on Saturday, May 30, by the record scores of the course (69 professional and 71 amateur) being reduced to 68 by Mr. P. L. Smith.

MR. THOMAS HANNAH is again petitioning the Judicial Committee of the Privy Council to consider certain questions arising from their decision as to his case under the Medical, Dental, and Pharmacy Ordinance of the Transvaal (*C. & D.*, May 30, p. 43). Mr. Hannah informs us that his object in the appeal is not for a decision to permit unregistered practice, but to have the law more clearly defined than it is at present.

QUEEN ALEXANDRA has appointed Dr. Frederick Stanley Hewitt to be Surgeon-Apothecary to her Majesty and Apothecary to her Majesty's Household in the room of the late Sir Francis Laking, Bart. Dr. F. S. Hewitt is referred to, but "Hewitt" is the word in the "Gazette." Dr. Hewitt is B.A. (Cantab.), and had his medical curriculum at Cambridge and St. Thomas's Hospital. He is M.R.C.S. and L.R.C.P. (1906), and in the following year took his medicine and surgery degrees at Cambridge. He practises at 18 Cavendish Square. He should not be confounded with Sir Frederic W. Hewitt, M.V.O., M.D., anaesthetist to the King.

PHARMACY IN EGYPT.—In an open letter addressed by Wadih Effendi El Hawawini, pharmacist, to the Director of the Board of Health, complaint is made of the way in which the writer was treated by M. Alexandre Ducros, one of the pharmacy inspectors. Ducros took proceedings against the pharmacist for having infringed the regulations governing pharmacists. The Court of Abdine on March 19 dismissed the case. The same inspector then started proceedings against another pharmacist, with the same result. At Alexandria ten pharmacists have also been acquitted. The Court of Abdine on May 1 tried three cases brought by pharmacy inspectors against pharmacists; the same Court also tried a case against Dr. Loria Bey, but all these four cases were dismissed.

TRADE NOTES.

IDEAL MILK AND SODA is Nestle's way of coping with the summer drink trade without an expensive installation. Particulars are given in our advertisement columns.

"THE EARLY FLY'S THE ONE TO SWAT" is the title of a card printed by Messrs. Kay Bros., Ltd., Stockport, for distribution by retailers. It is calculated to assist the sale of fly-catchers.

MESSRS. W. RANSOM & SON, LTD., pharmaceutical manufacturers, Hitchin, are extending considerably their manufacturing laboratories there, and are also adding to their already extensive herb-farm.

"POURFLEA."—This is the name of a white insect-powder, which retails in tins at 6d. and 1s. It is made by Mr. Godfrey Shaw, Burgess Hill, Sussex, whose advertisement appears in this issue.

WILSON TRUST.—Particulars of the above trust, which provides for lending sums between 100*l.* and 300*l.* to young men who have carried on business for one to three years in the City of London or within five miles thereof, may be obtained from the Clerk of Wilson's Trust, Chamber of London, Guildhall.

ANZORA CREAM.—The Anzora Perfumery Co., 32 and 34 Willesden Lane, London, N.W., are actively pursuing their policy of advertising Anzora cream to the public. A page advertisement is to appear in the "Daily Mail" next month, and it is well to see that stocks are sufficient to meet the demands that should follow this and other advertising.

WATER-HEATERS.—The spring list sent out by the Richmond Gas Stove and Meter Co., Ltd., 132 Queen Victoria Street, London, E.C., deals with the various kinds of water-heaters and gas-rings. These are economical methods of obtaining hot water for pharmaceutical purposes in summer when coal-fires are not in use. Those interested should send for one of the lists.

MERLUSAN is a tablet-form remedy employed in the treatment of syphilis and gonorrhoea. It is given internally. The claims made on behalf of the remedy are being placed before medical men resident in the British Isles, and it is likely that inquiries from doctors will be received by chemists. The sole agents for this country are Messrs. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E.

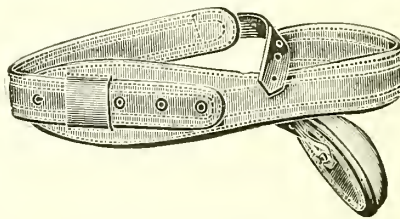
MESSRS. T. WEBSTER & Co., manufacturers of the "Diamine" ink-powders, inform us that the sixpenny tin of the powder for blue-black makes an imperial quart of ink (40 oz.), and not a reputed quart (26 oz.) as we stated last week. The firm also manufacture and put up in tins powders for producing red, blue, green, and violet inks. Each sixpenny tin makes an imperial pint of ink with tap-water, the products being brilliant inks which are non-corrosive and lasting.

N.C.R. ACTIVITIES.—The National Cash Register Co., Ltd., 225 Tottenham Court Road, London, W., send us a copy of the "British N.C.R. Weekly" for May 29, which is a special "Health" number. This deals in a bright manner with the factors which go to make up bodily and mental health, and should be specially interesting to chemists' apprentices and assistants who have not yet learnt in the school of experience of the things needful for acquiring and maintaining good health. Another communication from the company refers to the inauguration of a prize competition for shop assistants. This takes the form of a showcard and poster competition for prizes of 3*l.*, 2*l.*, three of 1*l.*, and four of 10*s.* The conditions can be had from the National Cash Register Co., and these should be obtained by intending competitors.

MESSRS. BURROUGHS WELLCOME & Co. have added to their series of "Vaporole" products "Vaporole" nuclein, a sterilised solution specially prepared for hypodermic injection, containing 0.03 gram ($\frac{1}{2}$ gr.) in 1 c.c., this volume being enclosed in a hermetically sealed glass container which is specially designed with a view to

convenience in hypodermic administration. The "Vaporole" nuclein is supplied in neat cardboard boxes of ten phials, carefully packed. Each phial is vase-shaped with a flat base, so that it may be set down without fear of overturning. A small file is put in each box for use in opening. Nuclein has been employed with advantage in bacterial affections generally, chiefly with the object of raising the opsonic index, besides being useful in intestinal toxæmia and in nervous breakdowns.

HERNICURA TRUSS.—The illustration shows the newest type of the Henricura truss, which is made by Messrs.



John Morgan Davis & Sons, truss and surgical-appliance makers, 278 Bishopsgate, London, E.C. This is an improvement on the earlier types.

"EVANS' ANALYTICAL NOTES FOR 1913" show a continued record of progress. In its hundred pages are condensed more information than ever concerning the examination of raw materials used in pharmacy, and also original work thereon. The first paragraph, relating to acacia, records examination of a spurious gum resembling senegal gum giving an inferior mucilage. Constants are given of such products as camphor oil, for which there are variable standards, and these show the types of articles met with in commerce. As an example of the up-to-date character of the report there is a contribution to the controversy regarding chaulmoogra oil. The notes reveal close attention to the practical side of estimation, as reference to lemon oil and opium assay will show. Tables are frequently used to present the maximum information in the minimum space, copaiba and tolu balsam showing this well. Possibly the most valuable researches in the report are those on the silicotungstates of the alkaloids of aconite, colchicum, and ipecacuanha. The appendix of thirty pages, including index, consists of nine tables of analytical constants relating to essential oils, melting-points, analytical equivalents, chemical impurities, and solubilities. These bring together in concise form an immense amount of useful information.

GAZETTE.

Partnerships Dissolved.

BARRETT, W. E., and BLOXSOME, A. H., Conway Road and Rhos Road, Colwyn Bay, Denbigh, physicians and surgeons, under the style of Barrett & Bloxsome.

BUTTERY, H. C., and MACK-STANLEY, A. St. J., Avenue Chambers, Southampton Row, London, merchants' manufacturers and general merchants, under the style of Howard & Stanley, and as proprietors of "Adele Skin Food" under the style of Adele et Cie.

CARTER, J. L. J., CARTER, T., and CARTER, G. C., Attercliffe Road, Sheffield, manufacturing chemists, under the style of Carter & Sons.

HARCOURT, D. G., ALDRED, G., and MORGAN, G., Granby Row, Manchester, wholesale druggists and manufacturing chemists, under the style of Harcourt, Morgan & Co.

HART, R. N., and COOK, I. R., Cranbourne, Exeter Road, and Branksome Terrace, Bournemouth, medical practitioners, under the style of Hart & Cook.

PIM, F. E. DE B., and BURBIDGE, H. C., Barrowford and Nelson, general medical practitioners, under the style of Pim & Burbidge.

Bankruptcy Acts.

ADJUDICATION.

SPENCER, W., Arlington Cottage, Saltburn-by-the-Sea, mineral-water manufacturer.

General Medical Council.

Ninety-ninth Session.

OUR report of the proceedings of the meeting held at 199 Oxford Street, London, W., under the presidency of Sir Donald MacAlister, K.C.B., stopped last week while Thursday's meeting was proceeding (*C. & D.*, May 30, p. 58). On that day the Council decided

SIX PENAL CASES.

Alexander Girvan, M.D., 8 Palace Street, Buckingham Gate, London, had been convicted at the Westminster Police-court and fined 10*l.*, and 10*l.* costs, for making a false declaration as to the cause of death of a young woman who had undergone an illegal operation, but not at his hands. Mr. George Elliott, K.C., appeared for Dr. Girvan, and after evidence a letter was read from Dr. C. O. Hawthorne, 63 Harley Street, in regard to Dr. Girvan's good character and relations in the profession. The President announced that the Council found the conviction proved and took the gravest view of the offence, but, having regard to the punishment already received, they suspended judgment till next session.

The case of H. Chatterjee, L.R.C.P.S.E., Stanley, co. Durham, was next decided, the President stating that the Council had found the fact proved that he advertised by public speaking, but suspended judgment until November, when he will be required to be present and produce evidence as to his conduct during the interval.

Wm. S. Daroux, L.A.H.Dubl., L.R.C.S.Irel., Station Road, Stanley, co. Durham, was charged by the British Medical Association with infamous conduct by accepting a post as medical officer to the Stanley and District Workers' Association, which circularised and canvassed, using his name in the advertisements. Mr. Daroux had, however, severed his connection with it, and did not admit that any canvassing had been carried on with his consent or knowledge. Mr. H. E. Hempson, solicitor to the B.M.A., desired in consequence to withdraw the case, which the Council agreed to.

John William Whitehead, registered dentist, Burnley, had been convicted of felony in 1904 and 1906. His name was erased from the Dentists Register ten years ago in consequence of the 1904 conviction, but in 1912 he applied to have it restored, though he was warned that in that case an inquiry would be made in regard to the 1906 convictions. As he had not replied to the Registrar's letters, and did not appear to offer an explanation, the Council decided to erase his name for the second time.

The British Dental Association, represented by Mr. Turner, were the complainants in the case of John Winter, registered dentist, Lincoln and Mablethorpe, assisted by his son J. G. Winter (who is not registered as a dentist and advertises in the name of his father), and the charge against him was that of covering his son. His name was erased from the Dentists Register.

Vallek Cartwright Mallan, registered dentist, 106 Edgware Road, London, W., was charged with issuing an advertising pamphlet. He had been interviewed also by the "Hampstead Advertiser," which published a lengthy and puffing description of him as a dentist and as a public man of Marylebone. The article had not been paid for, but Mr. Mallan had subscribed for a hundred copies and used them to advertise his practice. Mr. Mallan did not appear, but he had given an undertaking that he would not advertise in any way that the Council disapproved in future. The Council thereupon adjourned further consideration of the charge till next November, when Mr. Mallan will have to give an earnest of professional good conduct in the interval.

FRIDAY, MAY 29.

The Lords Commissioners of the Admiralty complained that William Blaikie Mason, M.R.C.S., L.R.C.P., 218 Somers Road, Southsea, signed an untrue and improper certificate of illness for a man who had not been examined or even seen by him. Mr. C. R. Brigstocke,

representing the Admiralty, said that men were given short leave sometimes from the Naval Hospital, and there was a little difficulty in getting them to rejoin their ship when near home; the doctor's certificate was the only check the authorities had against malingering or breaking leave. Mr. Mason had frankly admitted the facts, and they did not want to press the case, but to notify their objection to such laxity. Mr. Mason tendered himself as a witness, and pleaded that he had no idea that he was doing wrong. The man's landlady described symptoms which witness recognised as those of a complaint for which he had seen the man on a previous occasion, and he handed out the medicine and certificate without suspicion. He accepted the grave admonition of the President with a becoming acknowledgment of error. In announcing the decision of the Council that they found the facts proved, but that they would suspend judgment till November, the President added that the Council is about to issue the following

SPECIAL WARNING NOTICE.

Whereas registered medical practitioners are in certain cases bound by law to give, or may be from time to time called upon or requested to give, certificates signed by them in their professional capacity, for subsequent use either in courts of justice or for administrative purposes. And whereas such certificates include, among others:

Certificates:

- (a) Under any Statute relating to births, deaths, or disposal of the dead.
- (b) Under the Lunacy Acts.
- (c) Under the Vaccination Acts.
- (d) Under the Factory Acts.
- (e) In relation to children or to excusing school attendance.
- (f) In connection with sick benefit, Insurance, and Friendly Societies.

- (g) In connection with workmen's compensation.
- (h) In connection with naval or merchant shipping.
- (i) For procuring the issue of Foreign Office passports.
- (j) For excusing attendance in courts of justice, in the public services, in public offices, or at ordinary employments.

And whereas it has been made to appear to the General Council from time to time that some registered medical practitioners have given and signed untrue, misleading or improper certificates of the above specified or other descriptions.

Now, therefore, the General Medical Council hereby give notice that any registered medical practitioner who shall be shown to have given any untrue, misleading, or improper certificate, whether relating to the several matters above specified or otherwise, is liable to be adjudged by them to be guilty of "infamous conduct in a professional respect" and to have his name erased from the Medical Register under Section 29 of the Medical Act, 1858.

MORE PENAL CASES.

The name of Michael Joseph Ryan, L.R.C.P., L., L.M., K.Q.C.P.Irel., 106 Newport Street, Bolton, was removed from the Medical Register. He had deliberately written and handed to an insurance agent certificates of death of seven persons, some of whom had not died at all, some he had not seen, and all of whom he had not attended. Mr. Ryan pleaded that he was entirely innocent of any wilful wrongdoing; he had been in practice twenty-nine years, and had always upheld the honour of the profession. His plea for mercy was unavailing; he had already undergone six months' imprisonment for the offence.

The British Medical Association endeavoured to prove that William Young, M.B., Usworth, co. Durham, had been guilty of infamous conduct by accepting the position of doctor to the Miners' Union, which canvassed. The case occupied an hour and a half on Friday and the whole of Saturday morning. Mr. Young, a prepossessing-looking young doctor, appeared with high testimonials as to his student's career at Edinburgh, including one from Sir William Turner (ex-President of the Council), and, after hearing both sides, the Council decided that the facts alleged had not been proved to their satisfaction.

The charge against Edward Nangle Smartt, L.R.C.S. and L.K.Q.C.P.Irel., Leven, Hull, was also said to be canvassing. The Council found the facts alleged to be proved, but considered the explanation of Mr. Smartt to be given in good faith, and did not direct his name to

be erased from the Medical Register. Thus of four charges brought by the British Medical Association only one has been regarded by the Council as serious.

Caspar Denis Downing, L.A.H., Dublin, was convicted three times for drunkenness during 1913, and twice after he had received warnings from the Registrar. The Council postponed judgment till next session.

The Council had now got the business into Whit Monday, June 1.

INSPECTIONS AND REPORTS.

The report of the Examination and Education Committees advised the Council to commence a cycle of inspections in 1915. It is ten years since the last cycle, and a number of new bodies have sprung into existence since then. The report was adopted.

The recommendation of the Public Health Committee that there should shortly be an inspection of examinations for the diploma of public health was adopted.

Other reports were disposed of in quick time, the only discussion arising out of two exemptions in Latin recommended by the Students' Registration Committee. Sir John Moore detected the thin end of the wedge. The Council had already excluded Greek; now they were going to waive Latin. They ought not to exempt anyone in Latin when all the drugs in the Pharmacopœia are entered in Latin; they had been very careful to get it correct in the new volume. Other members took alarm, Sir William Whitla saying that one of their main ends is to turn out men able to write prescriptions in Latin. Dr. Norman Moore reassured the Council by explaining that the men exempted had passed the stiff examinations required by the Royal Navy, and knew something of Latin—perhaps as much as the residuum remaining in the heads of many of the members. The report was adopted.

THE NEW BRITISH PHARMACOPŒIA.

The following report of the Pharmacopœia Committee, brought up by Dr. N. Moore and seconded by Sir John Moore, was received and entered:

From November 18, 1913, to May 25, 1914, the number of copies of the British Pharmacopœia (1898) sold by the publishers was 483. The total number of copies sold in the year beginning May 26, 1913, was 1,052, a larger number than in the year preceding. Up to the present time 46,081 copies of the Pharmacopœia and 4,525 copies of the "Indian and Colonial Addendum" have been sold.

A revised proof of the Text and Appendices of the British Pharmacopœia (1914) has now been prepared, and copies of it will be laid before the Council by the Chairman. This proof is submitted subject to the typographical and other editorial corrections which may be necessary, and to the addition of an Index. The Committee will presently meet to consider such corrections, etc., and to pass for publication the final draft of the work.

It is suggested that, as in 1898, the Council should now delegate to the Executive Committee the duty of adopting the completed work as The British Pharmacopœia, 1914, of making the statutory arrangements with the Treasury, and of giving the statutory notices of formal publication.

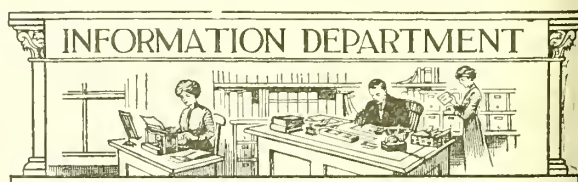
The President observed that the new Pharmacopœia has cost them many years of work, and under its able editors he believed it would take its place as the official medical book of the Empire. He wished publicly to thank the editors for their valuable aid in this very important work. He suggested that the Committee meet on July 13, so that the necessary steps might be taken for getting the book out in November. This was agreed to, and the business ended at 5.30 p.m.

After one or two formal motions the Council finished a very quiet session *in camera*. No motion has been brought up for discussion, and the academic business has been purely formal.

Flies and Disease.

MR. E. HALFORD ROSS, of the Lister Institute, writing to "The Times" on this subject, says the injunction against a fly-breeder granted by Mr. Justice Warrington on May 27 has improved the powers of local authorities in an important matter of public health. He decided, in the case of Bland v. Yates, that the stacking of manure by the defendant in

a garden immediately adjoining the plaintiff's house is a nuisance at law. His reasons for granting the injunction claimed rested on the facts that the manure when stacked caused an annoyance by its offensive smell and formed a nesting-place for house-flies, which were a plague on the plaintiff's premises. To those who are trying to improve health conditions in this country this is an essential decision. Recent researches have shown that house-flies are vectors of disease, and in consequence of this knowledge a crusade has been instituted against these insects and their breeding-places. It was shown in court how the house-fly and the lesser house-fly breed in manure. Horse-manure is, as his Lordship described, their site of election for this purpose. The female fly lays about 150 eggs at a sitting, and these soon hatch into crawling maggots, which live in the manure. After a period of eleven or more days, according to the atmospheric temperature, the maggots, having passed through the stages of larva and ehrysalis, give birth to mature flying insects. These flies scatter, are capable of flying some little distance in search of food, and are now known to be instrumental in carrying disease germs from one human being to another. They are proved to be responsible for a considerable infant mortality by conveying summer enteritis and other affections.



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Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

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| 240/160. "Guest Room" soap | 244/66. Molteni's injection (iron, arsenic, and strychnine). |
| 240/17. Cascar lubricant. | 244/74. Oriental insect-powder. |
| 240/23. Burt's embrocation. | 244/740. Bixby's jet oil. |
| 241/66. Spahlinger's serum for tuberculousis. | 245/11. Clark's gout-pills. |
| 243/12. R. F. Dale's patent oil-measures (glass vessels with automatic feed). | 244/7. Kingsford's milk of cucumber. |
| 243/70. "Sulfakilla," for cleaning railway carriages. | 244/700. Griffiths, medicine-chest maker: address. |

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

- | | |
|--|---|
| Aiouni, 242/8 | Otto of rose (in fancy 1-oz bottles), 245/10 |
| "Bigelow" fly-catchers, 241/61 | Oxopharmakon, 244/732 |
| "Bers-et" shaving-brushes, 245/13 | Oxylithe, 244/730 |
| Cremolia, 240/23 | Patentex, 224/14 |
| Davies's foot-canker cure, 238/36 | Peptenzyme elixir, 244/733 |
| Emetrol, 242/800 | Pomeroy's toilet preparations, 233/701 |
| Enterinum tablets, 241/460 | Rieger's toilet specialties, 240/16 |
| "Gleemo" toilet-articles, 243/72 | Roger & Gallet's perfumes, 240/41 |
| Hardeman's beetle-powder, 243/5 | Savopads, 237/9 |
| Health-salt tins, 243/1 | "Sea Breeze" proprietaries, 233/154 |
| "Hozone" towels, 243/71 | Selama water, 233/15 |
| Johnson's shaving-cream, 241/48 | Sherley's veterinary preparations, 233/156 |
| Kunapine, 233/23 | Tablet machinery (for 40-grain tablets), 234/23 |
| Laetoform, 233/152 | Telmo, 234/300 |
| Manola, 244/73 | Thais cream, 244/6 |
| Marshall's glycerin and cucumber jelly, 234/55 | Urodonal, 244/731 |
| Mentholia, 242/17 | Vergotinine, 235/8 |
| Neuralgine, 241/5 | "Virella" toilet-paper, 224/13 and 224/26 |
| "Nipon" aseptic handkerchiefs, 231/28 | "Zenobia" perfumes, 213/5 |

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

"Floating Sixpences Belong to the Doctors."

I do not know whether this statement is used as an illustration or as a fact, but if the latter, I respectfully disagree. If the doctor is by right entitled to the "floating sixpence," then the pharmacist who gets part of it, if not himself a thief, is at least a receiver of stolen property. Do we rob the doctors when we take the "floating sixpence"? Nothing of the kind. The "floating sixpence" belongs first to the pharmacist, for he has the first claim, legally and morally, to it, and it is a betrayal of our position to admit anything else. To start off with the assumption that the sixpence is the property of the doctor is to create a huge vested interest for which there is not the smallest necessity. The adoption of the "floating-sixpence" idea was only a superficially smart notion for keeping down the expense of prescribing. I have all along held that there is only one source from which the deficiency can be met—the public purse—and it must come out of there sooner or later.

Salford

may be taken as in most respects a typical deficiency area, and the reply of the Panel Committee to the complaint of over-prescribing is therefore extremely important. It more than justifies my remarks as to the policy of attempting to fasten a charge of extravagance on any considerable number of doctors, and it indicates in unmistakable fashion both the true cause of our trouble and the only effectual remedy for it. A doctor here and there may have prescribed too lavishly, but that is, as one of your correspondents says, a side issue; the important fact is that we have, and, if the prevalent sickness is to be adequately dealt with, must have, a great deal more work to do than the money available will pay for. That is the point upon which attention must be concentrated. The payment of a higher rate for females than for males might meet the case, but the total amount allocated for the Drug Fund must be increased in some way. We shall do ourselves no good by irritating the doctors, even if they are somewhat to blame; and it is not to be desired that they should think in halfpennies when dealing with life and death. We have a good ground in the fact that the Act was introduced to fight not only sickness, but cheap physic; we shall lose the advantage this gives us if we try to get them tied down to sixpenny prescriptions. A universal demand for a higher rate is our only sound policy, and if Mr. Lloyd George has not the courage of his convictions, we must try to put it into him. The Commissioners can only give what they have to give.

The "Remedies and Suggestions"

section of your series of articles on the Insurance-dispensing problem is excellent as showing the ways in which our difficulties might conceivably be met, but it is open to this criticism—that none of the remedies suggested can be applied by ourselves. The most we can do with regard to them is to agitate for their application, and I am glad to see that your contributor endorses my suggestion of a deputation representative of the whole trade to Mr. Lloyd George. We cannot "pool" the funds, but we can pool our own energies, and we ought to do it at once in a vigorous effort to get our case forcibly presented in the proper quarter. We are not all directly affected by the breakdown of the Medical Benefit regulations, but it is a matter to which none of us can reasonably be indifferent, to say nothing of the *esprit de corps* which alone ought to be sufficient in such a crisis. Who is to initiate the movement? The Society is our natural head, but the Presidential Address held out no hope of any action of this kind on its part. We were, however, told that if we could suggest any course the Council would consider it; our leaders, in short, ask us for a lead. Why should not the Lancashire Associations give it?

I am convinced that, once the idea took shape, it would "catch on" all over the country until such pressure was put upon the Council as would force them to act.

Sir Joseph Swan

was one of the few remaining links between pharmacy and science, and not only these but the whole world itself are poorer to lay by his death. Swan remained a student to the last, and in spite of his great age there is no saying what beneficent discoveries might not yet have come out of his quiet laboratory to enrich the world had he lived. While not possessing the brilliant originality of Edison, his co-partner in the development of electric light, it is certain that no more patient plodder ever lived or one who was more liberally endowed with that infinite capacity for taking pains which is said to be the chief characteristic of genius. What a splendid example and inspiration Swan's life is to every young man, and especially to every young pharmacist! It will always be a gratification to me that I had met Swan and had speech with him, and that I knew from personal contact that delightful charm which endeared him to all, and which, quite as much as his remarkable silver hair and venerable appearance, entitled him to be regarded as the personification of Father Christmas, as so many loved to call him.

The New B.P.

is at last in sight, and, having waited so long for it, we may now look forward to its coming without much impatience. The book is long overdue, but we shall forgive much to the General Medical Council if it is up to date. Will it be so? I have my doubts. For one thing, it has been too long on the stocks. It is years since it was decided what new remedies should be included, and possibly some of these are by this time already out of use. Moreover, the tide of progress has washed up many newer and more popular methods of treatment, some of which appear likely to stay. How many of those have been officialised? I do not, of course, know, but I suspect very few indeed. I should not wonder, too, if high politics has interfered with the B.P.—in other words, that expensive forms of treatment have been passed over so that prescribing under the Insurance Act should not be made more expensive than it is. I predict, therefore, that the B.P. will take the old beaten track, with, perhaps, a dash of imperialism thrown in, but with no serums, no vaccines, and few animal substances, all of which are largely used, so that the B.P. may be out of date before it is born.

The Permanent Establishment

of the Wellcome Historical Museum is a matter for grateful acknowledgement from all who have any regard for the past. The museum, as you say, is much more than a collection of curiosities; it has an educational value, not perhaps obvious to those who look only at "the main chance," but all the more real on that account. On the evolution of pharmacy it throws much light, and illustrates especially its growing importance in relation to medicine generally. I should like to see some arrangement made by which the many curious and valuable books could be more thoroughly utilised by visitors. Merely exhibited in cases they are little more than curiosities; their value to us would be immensely enhanced if they, or some of them, could, with proper precautions, be made available for readers. Most of them may be consulted at the British Museum, it is true, but that necessitates a reader's ticket and the expenditure of more time than most pharmacists can afford. It requires sometimes an hour or more to get out of that immense collection the book one wants. I venture to say that nothing would add more to the attraction of the Wellcome Museum for students of medical history than facilities for consulting, say, the old Pharmacopœias there gathered together—a really splendid collection.

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Editorial Articles.

British Pharmaceutical Conference.

For the fifty-first meeting of the British Pharmaceutical Conference, to be held at Chester from July 20 to 24, under the presidency of Mr. E. H. Farr, the Local Committee consists of Messrs. W. F. J. Shephard (Chairman), J. H. Hopley (Vice-Chairman), R. Cecil Owen, B.Sc. (Local Secretary), T. Carter, F. C. Cooling, J. P. Craine, D. Dickinson, A. Donald, W. Duplock, A. Elder, W. P. Evans, M. Johnson, J. Milling, G. H. Moss, R. Newstead, R. R. Roberts, W. Roberts, J. Simon, F. Simpson, R. M. H. Ward, and T. Woolman. The members of the Ladies' Committee are Mrs. Carter, Mrs. Dickinson, Mrs. Duplock, Mrs. Milling, Mrs. Hopley, Mrs. Cecil Owen, Mrs. Simon, and Mrs. Woolman. The meeting will commence with a reception in the Town Hall on Monday evening, July 20, at 8.30. On Tuesday the serious work commences in the Grosvenor Hotel, which is the headquarters, and the sessions are to be held in the Ball Room at 10 A.M. and 2.30 P.M. each day. There will be ladies' excursions in the forenoon and afternoon of Tuesday and in the forenoon of Wednesday. The first excursion for all will be a river one, with tea at Eaton Hall on Wednesday, between 3 and 7.30 P.M., and the Thursday excursion is to Llangollen. There is to be a dinner on Tuesday evening in the Ball Room of the Grosvenor Hotel, and a smoking-concert on Wednesday evening in the same

place. Golf has been arranged for Friday, July 24, play being over the Sealand course, and those who do not golf may take the special excursion to Port Sunlight, where Lever Brothers' works may be inspected.

The Camphor Market.

IN our issue of May 9 we notified the fact that the Japanese Government Monopoly Bureau had withdrawn their official quotations for "B" and "BB" camphor, and were not sellers. We understand, however, from their selling agents in London that they hope to be in the market again shortly, and will be able to offer for July-September shipment to their regular buyers. The previous prices of monopoly camphor were 135s. per cwt. c.i.f. for "B," and 142s. 6d. c.i.f. for "BB" grade, which prices have been in operation since June 1913. The opinion is expressed (quite unofficially, of course) that the quotations will not be advanced. Meanwhile, any small parcels of crude that are offered from outside sources command an extreme price, up to 175s. being asked for Japanese "BB" flowers from second-hands, and for China crude a limited quantity at 157s. 6d. c.i.f. A likely deterrent against a rise by the Monopoly is the fact that any substantial advance would have the effect of bringing the synthetic product into more general demand. As it is, the makers of synthetic, working quietly in various directions, are meeting with a fair measure of success, it being reported that in the United States the makers have now been able to get down to the present basis of cost of the refined product, and in Germany we understand that artificial camphor has been brought on the market at a cost of production of 80s. per cwt. The existence of the synthetic product, however, greatly depends on the cost of turpentine, which, after a lengthy period of fairly low prices, now shows signs of being on a decidedly higher level, as will have been gathered from recent information published in this journal.

It is, of course, well known that the Japanese Government exercise an almost exclusive control over refined camphor as well as crude, and their domination of the world's markets at prices which give neither pleasure nor profit to handlers has also led to making it a very lean business proposition for the American, German, and English refiners, who are dependent on their supplies of crude from Japan. In fact, it is more profitable to obtain refined camphor from Japan than to buy crude and refine it in Europe. During the past month or two the demand for refined has been very active, and since the beginning of the year the price of slabs in the European and American markets has risen about 3d. per lb., the spot price being about 1s. 8d. and in very limited supply. Such has been the demand that the Japanese refiners are reported to have sold all they can produce until January-March of next year. If this is so, a further advance may be looked for, especially with the seasonal summer demand. Much, of course, will depend on whether consumers will follow the higher prices, which are still low as compared with previous years. Looking back at our records, we find that in 1907, when monopoly camphor advanced at one stroke by 70s. to 73s. per cwt., to 306s. and 319s. c.i.f., English bells were selling at 4s. 9d. per lb., and Japanese 1-oz. tablets at 4s. 5d. We cannot conceive that such prices will be repeated, as it must always be the policy of the Japanese Government to starve out synthetic camphor. There is, of course, some justification for the present higher range of prices, as statistics for the first quarter of the year 1914 (January-March), which have

just come to hand, show a substantial falling-off in exports from Japan. They are as follows:

		1912	1913	1914
Kin	...	884,538	709,399	696,192
Yen	...	795,297	659,633	618,553

During the quarter, Great Britain received the largest amount of all countries—viz., 156,040 kin—followed by British India with 154,764 kin; the United States is third, with 127,433 kin, and Germany fourth, with 110,098 kin. France and Australia follow with 68,033 kin and 19,124 kin respectively. The exports of camphor oil also fell off considerably for the quarter, being almost 90,000 kin less than in 1913, but 152,000 kin less than in 1912, all of which goes to prove that operations have been on a smaller scale.

The New Pharmacopœia.

THERE is an almost imaginary line between the British Imperial Pharmacopœia projected by Mr. John C. Umney in his Presidential Address to the Jubilee Meeting of the British Pharmaceutical Conference last year, and "the official medicine book of the Empire," referred to by Sir Donald MacAlister, as Chairman of the Pharmacopœia Committee, when he laid the final report before the General Medical Council on Whit Monday. Sir Donald laid special emphasis in his speech to the Council upon the years of labour that the Committee had put into the work of preparing the new British Pharmacopœia, also expressing satisfaction with the assistance of "the able editors"; but he did not mention the services of the Committee of Reference in Pharmacy, by whom chiefly the revision-work has been done. That omission will go far to justify the resolution of pharmacists as voiced by Mr. Umney not to participate again in B.P. revision upon the present basis. We understand that as soon as the new edition of the British Pharmacopœia is published steps will be taken to have the Bill projected by Mr. Umney introduced into Parliament, as an official measure if possible, although it is not likely that the introduction can be secured during the present Session of Parliament. We gather from Sir Donald MacAlister's remarks that the new edition of the Pharmacopœia will be ready for publication on July 13, and his remarks about it have resulted in a goodly number of paragraphs being communicated to provincial and other newspapers, chiefly by London correspondents, who go upon conjectures rather than actual facts in what they say about the forthcoming Pharmacopœia. A writer to "The Times" seems to be the best informed. In his remarks the following two paragraphs occur, and they may be regarded as being approximately correct:

"One of the chief features will be that limits of impurity in drugs and medicinal chemicals—especially dangerous impurity—will be carefully defined. For instance, at present carbonate of potash containing arsenic will pass the B.P. test, 1898, but it will not pass the 1914 edition, which will limit the quantity to two parts per million. Again, in regard to lead contamination in tartaric acid—the importance of which has been recognised both by the Government and local authorities—the limit of admixture is prescribed as ten parts per million, as compared with a very indefinite limitation before.

Another general feature of the book will be an extension of chemical standardisation to drugs not at present standardised, but it is significant to note that there is no recognition of physiological standardisation. Notwithstanding the advances that have been made in physiological methods of testing the strength of drugs—more especially of those drugs which do not admit of chemical standardisation—it has been felt that the time is not yet ripe and knowledge not sufficiently perfect to adopt animal tests in this edition. The international unification of the quality of preparations of potent drugs, notably those of henbane, belladonna,

aconite, nux vomica, etc., is of obvious importance, especially where poisonous preparations are concerned. It has received the endorsement of various nations through a Hague conference, and has due recognition in the forthcoming book, so that a person having the same prescription made up in, say, London, Brussels, and Paris, will get a preparation of uniform strength."

The characters and tests given in the Pharmacopœia will be of greater assistance to public analysts and other analysts than those of previous editions of the Pharmacopœia have been. Whether this is wise or not is a matter of opinion, which should not be expressed until the actual text of the Pharmacopœia is available. As a rule nothing is lost by precision, but something gained; yet in commerce, as in law, it is occasionally advantageous not to be too precise, and it is in the latter regard that the new B.P. may err. We understand that the rejections of medicines and preparations, which are at present official, are not very numerous, nor will the Pharmacopœia be revolutionary, except perhaps in one respect—namely, that the Imperial system of weights and measures disappears from the formulas and is replaced by metric weights and measures, although the doses are to be expressed in Imperial weights and measures as well as in the metric equivalent. We do not think that medical men or pharmacists want the metric system, and this attempt to force it upon them will not succeed, principally because it has to be fitted in at some point with the Imperial system (in which we live and move), especially when it comes to buying and selling, just as the doses have to be adjusted to the terms which are in every-day use. A new edition of the British Pharmacopœia becomes authoritative when it is published, and notice of the publication has to be advertised in the London, Edinburgh, and Dublin "Gazettes," such notices being sufficient evidence of its publication. As soon, therefore, as the notices are published, the new edition standards alone are legal as the British Pharmacopœia articles, and the older ones may only be sold under the designation of the particular Pharmacopœia. The notice is short, and it would be much better if it were longer, as in the British Colonies: but the Medical Council Act, 1862, allows for no interval, and the only way that one can be gained is by delaying the "Gazette" notice.

The International Opium Conference.

THE third International Opium Conference, which meets at The Hague on June 15, will be largely formal. The delegates from the various countries will be asked to confirm the findings of the previous Conference, and decide to send out again requests for adherence of the countries which have not yet signed the International Convention. The delegates will then have to debate on the action to be taken in case of continued refusal to join the Convention. It is not likely that any further advance towards settlement will be made for reasons which have been referred to recently in THE CHEMIST AND DRUGGIST.

Drug Fund Deficits.

THE most disheartening feature to chemists faced with the discounting of their Insurance-dispensing accounts is the lack of official guidance other than suggestions of inquiry into over-prescribing and the exercise of patience. No statement has emanated from Bloomsbury Square as to what representations, if any, have been made to the Insurance Commissioners, and reminders as to the existence of the discounting clause in the chemists' agreements with Insurance Committees only serve to recall that its acceptance was urged by the Pharmaceutical

Society's officials. The Commissioners have received many representations from Insurance Committees that chemists are worthy of payment in full, but the Pharmaceutical Council and its Executive Committee of Local Associations have been silent until this week. It is interesting to report that Mr. J. B. Brown, Chairman of the Plymouth Insurance Committee, as a result of an interview with the Commissioners on the Drug Fund deficit at Plymouth, has been able to make the following statement publicly:

I think that we may say we have very good reason to hope, although I cannot put it stronger than that, that when the final position is ascertained the claims of the chemists in this respect will receive the full consideration of the Commissioners on equitable grounds, regardless of any technical grounds that may bear against the chemists. The matter must be left there. Although the chemists might possibly have to wait until nearly the end of the year, when the new scheme must be ready, they would have to be patient, hoping that the ultimate result would not be unsatisfactory to them, and that the new basis would meet their wishes. He did not think it could fairly be said that the Commissioners were to be blamed for not having dealt with the matter before, as it had not developed to the full until comparatively recently.

Now, why does Bloomsbury Square allow panel chemists to get information of this nature *via* Plymouth?

Medicinal Wine.

LIKE the Magistrates in Manchester, those of Bradford consider that wines are wines no matter to what extent they are altered by the addition of therapeutic agents. They thus differ from the Excise authorities, at least in respect to the fact that the latter have for many years ruled that medicinal preparations containing wine, for which formulæ are provided in the British Pharmacopœia, may be sold by registered chemists without taking out a wine-licence. The same condition also applies to any other medicinal preparation made with wine which the Commissioners of Customs and Excise consider not to require a wine-licence for its sale. A chemist's manager in Bradford has been fined for selling Wincarnis with quinine without a wine-licence, although the Board of Inland Revenue and the Commissioners of Customs and Excise say that that preparation may be sold by chemists without a wine-licence. Since the Finance Act, 1910, the local authorities look after these licences, hence the action in the present instance. As the Chemists' Defence Association undertook the defence and an appeal was mentioned, the matter will come before the Trustees of the Drug-trade Appeal Fund, and if they are advised to apply for a case to be stated for appeal they will contribute no doubt to the expense of appeal, as well as the manufacturers of Wincarnis with quinine. Here we may leave the matter for the present, but it is well that chemists generally should know that medicines made with wine are not on all-fours with alcoholic medicines made with distilled spirits of any kind. On this subject we published some years ago the following letter from the Excise authorities:

E 1513
1903

Inland Revenue, Somerset House,
London, W.C.

March 4, 1903.

SIR.—The Board of Inland Revenue having had before them your letter of the 17th ultimo, I am directed to acquaint you that they are of opinion that if a so-called medicated wine—the basis of which is in fact wine—is so slightly medicated as to be capable of being consumed as a wine, it would not be a sufficient answer to an information for the recovery of a penalty for selling wine without a licence to allege that it was a medicated wine, and was sold with a medicine-stamp by the holder of a licence for the sale of medicines.

The Board are advised that the Act 16 Geo. II., c. 8, Section 12, cannot be regarded as extending to cover the sale of a wine such as that referred to, and they cannot, therefore, sanction the sale of such wines by chemists without a wine-licence.

I am, Sir, your obedient servant,

J. P. BYRNE, Assistant Secretary.
The Editor CHEMIST AND DRUGGIST.

Section 12 of the old Spirits Act refers to "the selling and retailing of brandy, rum, arrack, nsequabaugh, Geneva, aqua vite, or any other distilled spirituous liquors or strong waters," but not specifically to wines, and presumably this is the reason why medicated wines are considered not to come within the exemption granted to chemists.

A Nineteenth Century View

of the recognition of opticians was given at the meeting of the General Medical Council last week. It appears that on consideration of the Tasmanian Opticians Act, to which the attention of the Council had been called by the Colonial Office, the Registrar was directed to supply the Secretary of State with documents giving the Council's views on the matter of the official recognition of opticians. The President also asked Mr. R. Brudenell Carter to give his views, which resulted in the following memorandum being drawn up:

The chief objection to official recognition, by law or charter, of any qualification as an "optician" seems to me to be that such recognition is superfluous for the purposes of legitimate trade, and would be misleading and often dangerous as soon as the limits of such trade were overpast. The only demand of the public which a non-medical prescriber of glasses can supply with safety is that of the ordinary or almost universal requirement of slightly magnifying glasses for near objects when the age of forty-five or fifty has been attained, and such glasses are turned out by manufacturers by the thousand, are familiarly distinguished by numbers, and are adjusted with sufficient accuracy to the wants of the purchaser by a simple sliding scale carrying a test object. The selection of a properly fitting frame is also an easily acquired matter of detail. But, as soon as anything beyond these simple requirements is in question, as soon as the matter to be dealt with is one of short sight, of defective sight, of squint, or even of a demand for near work of magnifying glasses of greater strength than those ordinarily required at the age of the customer, the knowledge required for safe guidance is no longer "optical," but is physiological, or medical, or both; and a smattering of either kind, on the part of the salesman, would more often be prejudicial than beneficial to the customer. It is plainly impossible to prevent the public from seeking, or acting upon, the advice of incompetent persons, but they should not be encouraged to do this by an apparent authorisation which would have no sufficient foundation in fact, and which, short of a complete medical education, could not cover the whole of the ground on which the requirements of the purchaser might rest.

Mr. Brudenell Carter, F.R.C.S., is one of the most distinguished ophthalmic surgeons in this country, and his opinions are entitled to the utmost respect. He has retired from practice—he is eighty-six years of age—and in the memorandum he seems to us to have overlooked entirely the advances which have been made in the attainments of opticians since the dawn of the twentieth century. If steps are taken to obtain legal recognition for opticians, *ex parte* statements of interested parties are not likely to influence Parliament. A Select Committee would probably be appointed, before which evidence would be taken from opticians and the public which would place medical views in their proper perspective.

PHARMACEUTICAL PRODUCTS IN SWEDEN.—A decree has been issued in Sweden regulating the importation and sale of pharmaceutical products—i.e., simple chemicals and drugs and preparations used wholly or mainly as medicines, or for the preparation of medicines. Only chemists and druggists, wholesale dealers and manufacturers, directors of scientific institutions and research laboratories will be allowed to import pharmaceutical products. The ingredients are to be stated on the label, or a declaration enclosed in the package containing the products. In the case of simple chemicals and drugs the statement must be made in the terms of either scientific formulæ or the current Pharmacopœia. In the case of preparations this statement must give the names of the preparations as set forth in the current Pharmacopœia or as approved by the Medical Board; otherwise it must indicate the ingredients of which the preparations are composed as well as the quantity of the ingredients and the method by which the preparations have been made up.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Election of Pharmaceutical Committees.

The President of the Pharmaceutical Society of Great Britain has issued a circular letter to Pharmaceutical Committees regarding the election of new Committees which is to take place next month. In the course of the letter Mr. White says that it is most important that one returning officer should be appointed for England and Wales, and he suggests Mr. Woolcock for the position. He has every reason to believe that such an appointment would satisfy all the requirements of the Insurance Commissioners and expedite matters. The Pharmaceutical Council will defray the expenses of the elections where no local funds are available. Elections must be taken between June 1 and July 1. Mr. White concludes by stating that the duty imposed on Pharmaceutical Committees of furnishing copies of the scheme to persons, etc., on the panel emphasises the necessity for obtaining a reasonable sum from the Insurance Committee for administrative expenses as previously advised.

The Lancashire Situation.

As briefly mentioned editorially last week (*C. & D.*, p. 56), the proposals of the Pharmaceutical Council to establish a central checking bureau for Lancashire (*C. & D.*, May 23, p. 91) have not been adopted. This decision was reached at a meeting in the County Offices, Preston, on Thursday, May 28, of the representatives of the Panel, Pharmaceutical, and Insurance Committees who were appointed to consider the scheme. Mr. Travis-Clegg presided.

At the outset Mr. Woolcock (who had called the meeting) expressed the hope that the matter should be decided that day. One of the medical representatives strongly objected to the inconvenient hour of meeting, and the Chairman expressed his regret. The Chairman of the Preston Insurance Committee asked what authority Mr. Woolcock had in calling the meeting or being present, and Mr. Woolcock explained that no secretary had been appointed, so as a matter of convenience he acted. He then explained that the cost of checking in Lancashire varies from 4s. to 17s. 6d. (Liverpool) per thousand prescriptions. He expressed the opinion that in the low-price places the checking is not done efficiently and urged the establishment of a central bureau. Mr. Lord Gifford (Blackburn) supported this statement. On the contrary, another member questioned if there would be any improvement, and the cost might be greater. He considered that the checking would be better done locally. To this Mr. Woolcock replied that central checking would be better, if not cheaper. It would only cost the doctors a ninth of a penny, and smooth working of the Act is most desirable to chemists. Several doctors then spoke, all in a sympathetic strain so far as doing all in their power to prevent discounting chemists' bills. They pointed out that checking is no concern of the doctors, and would relieve them of no duty which under the regulations they are required to do, nor would any expense be saved; while the local checking must be better on account of local knowledge. Another doctor remarked that they (doctors) were being asked to contribute a ninth of a penny per insured person for something which at present costs them nothing. He was sure that as far as excessive prescribing is concerned checking will become lighter in the future. The Secretary of the County Pharmaceutical Committee intimated that the proposed scheme had been considered, but in view of the fact that the present system produces quick work and prompt payments a change was not favoured. The county authorities deal with about a third of the prescriptions in the nineteen areas in Lancashire, and had done it well. The Preston and Bury representatives also spoke in favour of their own arrangements, whereupon Mr. Harcourt Clare (Clerk of the Lancashire County Insurance Committee) rose and said that it was clear that the Panel Committees, Pharmaceutical Committees, and the representatives of the Insurance

Committees did not approve of the scheme of central checking, and it was not worth while spending any more time discussing it. He saw no reason for constituting a joint Committee, nor had any necessity for it arisen in the county of Lancashire, and no useful purpose would be served by altering the present system. The thanks of the meeting were tendered to Mr. Woolcock, who, in reply, said he was afraid that he was too far ahead of his time, but he was certain that his scheme would have to be adopted later, and that the discussion had done much to clear the way.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Barrow.—During the quarter ended April 11, 21,343 Insurance prescriptions were dispensed at a cost of 812*l.* 19*s.* 10*d.* (average 9*d.* each), an increase of 2,658 prescriptions and 307*l.* 14*s.* 3*d.* compared with the corresponding period of 1913, when prescriptions averaged 6*d.* The Medical Benefit Sub-Committee has been instructed by the Insurance Committee to inquire into the reasons for the increase in chemists' accounts. Payment has been passed for 80 per cent. of the accounts as rendered.

Bolton.—The Insurance Committee has received estimates for administrative expenses from the Panel Committee for 32*l.* 10*s.*, and from the Pharmaceutical Committee for 50*l.* 10*s.* The Committee has decided to grant a sum in aid of expenses incurred in an inspection of prescriptions for excessive or extravagant prescribing during the first medical year.

Bournemouth.—The Insurance Committee referred back to the Medical Benefit Sub-Committee a recommendation to disallow in future vaccines and proprietary articles. During the discussion Dr. Neville Hart pointed out that a dose of vaccine, which might save many bottles, may not cost as much as a single bottle. It was stated that the charges against the Drug Fund were twice as heavy as compared with last year, whereupon Mr. Beaton asked if some doctors were prescribing 16-oz. bottles instead of 8-oz. to save insured persons coming again. Mr. F. E. Bilson said it was extremely necessary to economise, and it did not seem a very great hardship for patients to have to pay for vaccines, etc.

Bradford.—The Insurance Committee on May 27 passed payments to chemists for 3,214*l.* 7*s.* 10*d.*, being 66½ per cent. of the accounts for 123,539 prescriptions, costing 4,281*l.* 11*s.* 8*d.*, dispensed during the quarter ended April 11. The Drug Fund for this period is estimated at 3,185*l.* The charges against the Sanatorium Benefit Fund included 452 prescriptions, value 32*l.* 19*s.* 1*d.*

Cornwall.—Payments have been made to chemists of 1,264*l.* 16*s.* Last quarter 47,058 prescriptions were dispensed at an average cost of 9*d.* each. At the meeting of the Insurance Committee on May 27, Mr. H. H. Cannon suggested that the cause of the increase in the number of prescriptions should be inquired into.

Dudley.—Chemists are being paid 329*l.* 3*s.* 9*d.*, representing 90 per cent. of their accounts for the past quarter, the heaviest since the Act came into operation.

Essex.—The Pharmaceutical Committee met at 4 Broad Street Place, London, on Wednesday afternoon, June 3, when a good deal of business was transacted. The draft scheme for the election of new Pharmaceutical Committees was agreed to, and Mr. W. J. U. Woolcock was nominated as the Returning Officer. The Committee received and considered a letter from the Commissioners in regard to administrative expenses. The Commissioners inform the Insurance Committee to allow an allotment of money to the Panel Committee and the Pharmaceutical Committee; also that the Committee may make provisional payment to these Committees from time to time, so long as they keep within the final allotment made in respect to Medical Benefit, but not to pay for the travelling expenses of members of the Committee. The final allotment will be on the basis of the revised provisional credit for Medical Benefit, which will shortly be notified to the Insurance Committee, and the Commissioners mention that the term "medical year" is eleven days short of the calendar year. The Pharmaceutical Committee proceeded to consider three charges against medical men. Two of these were decided not to be proceeded with. In one case the medical practitioner has died since the complaint was made. In a third instance, where the complaint was that the panel doctor prescribed according to private formulae, the matter was referred to the Medical Benefit Sub-Committee. Two cases of alleged excessive prescribing were also dealt with. In

one the panel doctor prescribed three gross of pills containing expensive ingredients, the charge for the whole being 25*s.* 2*d.* The Committee decided to bring the matter under the notice of the Medical Benefit Sub-Committee, with the recommendation that a month's supply at the most would have been ample to meet the requirements of the case, and the Pharmaceutical Committee saw no reason why such an excessive amount should have been ordered. A report of the Special Sub-Committee appointed to inquire into the dispensing for insured persons in Harwich and Dovercourt was presented and adopted. It appears from this that three doctors dispense for 2,253 out of 3,837 insured persons, and the Pharmaceutical Committee did not agree to doctors dispensing for persons in Dovercourt and Parkstone, as these are not rural areas, and the Committee recommended that an effort should be made to secure recognition of the principle that, wherever it is as convenient to get medicine from panel chemists as from panel doctors, the chemist should be the dispenser. It was agreed that the report should go to the Medical Benefit Sub-Committee. It transpired that the average cost of the prescriptions during the first quarter was 8*d.* per prescription, as compared with 7*d.* the average per prescription for the whole of last year.

Hull.—The following statistics relate to the charges against the Drug Fund for the first quarter of the medical year 1914, the figures of the corresponding quarter in 1913 being given in parentheses: Total charges, 3,151*l.* 14*s.* 8*d.* (1,946*l.* 17*s.*); number of prescriptions, 81,784 (67,341); average cost per script, 9.19*d.* (7.09*d.*); number of prescriptions costing over 1*s.*, 16,482, or one in five (4,800, or one in fourteen); number of scripts over 2*s.*, 1,309, or one in 62½ (457, or one in 147½); overcharges per 100*l.*, 17. 18*s.* 11*d.* (3*l.* 18*s.* 8*d.*); undercharges per 100*l.*, 11*s.* 4*d.* (13*s.* 10*d.*); amount disallowed per 100*l.*, 1*l.* 7*s.* 7*d.* (3*l.* 4*s.*); amount disallowed for appliances, etc., not on second schedule, 1*l.* 2*s.* 2*d.* (12*l.* 9*s.* 11*d.*). The highest price per script per individual doctor dispensed by one chemist was 2*s.* 2*d.*, being for seventy-seven prescriptions.—The Insurance Committee's Medical Sub-Committee have, in reply to a request from the local Pharmaceutical Committee for accounts to be paid monthly in full, resolved that the position be again considered two months hence; the statement in the meantime to be forwarded to the Panel and Pharmaceutical Committees for their observations. At the Insurance Committee's meeting on May 26 a letter was read from the Pharmacists' Association asking that accounts be paid monthly in full. The Committee decided to reply that they could not depart from their present method of payment. Payment was passed on account for chemists' bills for the month ended April 11, and for the 25-per-cent. balance for the two months ended March 11.—The price-list of preparations contained in the local Pharmacopœia issued by the local Pharmaceutical Committee contains the following notes:

1. H.P.—Hull Pharmacopœia.
2. The price of mist. ammon. pic. includes aq. chlorof., which must be used.
3. Aq. dest. is charged in the following preps. and must be used, viz.: Garg. alum. et zinc.; guttæ, all; lot. ac. boræ. c. zinc. chlor.; lot. alkal. co.; lot. plumbi; lot. plumbi c. opio; lot. rubra; lot. sod. bibor. To be also used, and charged for in dispensing solutions of silver salts, zinc salts, hydrarg. perchlor.
4. D.X. or Q.D.X. (quantitas duplex)—send double quantity.
5. It is requested that, as far as possible, bottles with appropriate graduations be used for all liquid medicines for internal use. Gargles, mouth-washes, and non-poisonous lotions and liniments to be dispensed in plain ungraduated bottles.
6. Oiled paper to be supplied when waterproof or protective is ordered.
7. When gauze is ordered by weight, assume that 2 oz.=6 yds. and 1 oz.=3 yds.
8. When carbolic lotion or oil is ordered without indication of strength, supply 5 per cent. in a vehicle of aq. font. or ol. oliv. respectively, in a charged poison-bottle.
9. Under no circumstances will the Insurance Committee pay for proprietaries, unless supplied under written authorisation from the office, with the exception of Argylol, Dionin, Ichthyol, Lysol-form, Styptol, Bipalatinoids. Therefore when scripts are received ordering a proprietary as part of a dispensed medicine, charge the appropriate fee and for any other drugs contained therein; obtain from customer the charge for the proprietary—e.g., Lysol 1 dr., aq. ad 4 oz., total charge is fee 2*d.*; liq. carb. deterg. 1 dr., hydr. am. gr. 20, paraf. moll. ad 1 oz., charge fee 3*d.* and 3*d.* each for the two drugs.

The prices relate to mixtures (39), lotions (10), gargles (5), liniments (2), giving those for 4, 6, 8, 10, 12, 16, and 20 oz., inclusive of dispensing-fees, and for drops (10), ointments (4), and compound starch-powder at ounce rate, exclusive of dispensing-fee. Pills (six formulae) are priced for quantities of 1 to 6, 7 to 12, and 13 to 24, inclusive of dispensing-fee. Prices are given for a list of thirty drugs not on the Tariff, and a table of quantities of potassium iodide in grains for each halfpenny from ½*d.* to 9*d.*—Rowlands, Cash Chemists, Ltd., 8 Hesse Road, Hull, have been added to the panel list.

chemists, while the name of Arthur Reginald Rowland has been withdrawn as a person entitled to supply drugs other than scheduled poisons.

Kent.—At the Insurance Committee's meeting on May 27, Mr. Risborough asked if the cost of prescriptions is paid. An insured person had been informed by his panel doctor that he could give medicine which would cure him rheumatism, but as it would cost 10s. 6d. special permission to order it would have to be obtained. In reply, it was stated that it is not correct that the doctor could prescribe the medicine in question.

Liverpool.—Cheques for the outstanding balance for the last medical year are being sent out this week, with a detailed statement showing the total of corrections and amounts disallowed in each quarter. Chemists may inspect their accounts if notice is given within fourteen days. Of £2s. for drugs, 1s. 9½d. has been expended, and, although there is a balance to the good, it is proposed to go into the question of extravagant prescribing, as a few cases appear to require serious attention. As last year 95 per cent. of accounts was paid on presentation, some chemists have been overpaid, and the Insurance Committee will require refund so as to adjust their accounts for the year.

Plymouth.—At the Insurance Committee meeting on May 26, Alderman J. F. Winncott referred to the "scantiness" of the Insurance Commissioners in their treatment of the Committee's representations in regard to the Drug Fund deficit. The Chairman (Mr. J. P. Brown), in reply, said he was in sympathy with the desire that chemists should be paid in full as equity required, but pointed out the fact that the contracts were conditional owing to the discounting clause. He and the Clerk, at a recent interview with the Commissioners, found that the Commissioners were giving the matter their gravest consideration, but it had developed into a much larger question than was thought at first, and no definite arrangement could be made until details had been worked out. Before a case for the chemists could be received by the Commissioners, the prescriptions must be thoroughly and properly gone through, according to the regulations provided in the Act. If there had been over-prescribing—that was, extravagant prescribing beyond the needs of the case—the doctors must be surcharged. The Commissioners had to act according to statute. He believed most of the Committees concerned were making definite investigations, and until the question in all its bearings had been fully gone into, possibly involving an entire change in the method of paying chemists—what change they did not know yet—the payment of deficiencies could not have consideration.

Exmouth.—At the meeting of the Insurance Committee on May 28 it was stated that chemists' accounts for the past quarter amounted to about 2,150l. On a proposal to debit the Sanatorium Benefit Fund with 10l. per quarter for medicines improperly charged to the Drug Fund, Mr. J. Foster, chemist, said this sum was nothing like sufficient. The Chairman (Sir Scott Foster) said he believed the allowance applied only to patients recommended for curative treatment. Mr. Hollis suggested that the surplus from insured persons who had not chosen their panel doctor should be used to make good the 500l. deficit in last quarter's fund. The matter was referred back.

Sheffield.—The Pharmaceutical Committee met on May 30, Mr. J. Gilbert Jackson presiding. The Panel Committee, in consequence of a protest transmitted by the Secretary of the Pharmaceutical Committee, had agreed to the use of ordinary tinctures (instead of aqueous tinctures) in the new Formulary, but the Panel Committee still considered the use of numbers desirable. The draft model for the constitution of the new Pharmaceutical Committee, and the suggestion in the letter from the President of the Pharmaceutical Society that Mr. W. J. Uglov be adopted as returning officer, was agreed to unanimously. The Secretary reported that two members of the Committee had been absent from the Committee for three consecutive meetings *contra* to the Insurance Regulations. Local chemists have to wait a week longer for their promised 10 per cent. of their 1913 accounts, owing to the Insurance Committee postponing the monthly meeting, which would have fallen in Whit-week, until June 10.

Southwick.—The Insurance Committee is having half of prescriptions for last quarter checked in London, and arrangements for the future to be considered later. The Clerk has been instructed to write to a firm and a chemist on the panel in regard to misleading notices on their shop windows. Another pharmacist, who has undertaken to correct prescriptions at an address other than that specified in the agreement, is to be informed that he is not entitled to do this unless his agreement is amended. The Town Council had completed arrangements for all medicines required by insured persons undergoing domiciliary treat-

ment for tuberculosis to be obtained from the sanatorium dispensary from June 1. The doctors are being supplied by the tuberculosis officer with a list of the drugs, etc., kept in stock. The Council undertook to supply such drugs as from January 11, but accounts received by the Committee from chemists for dispensing domiciliary prescriptions from that date to June 1 will be paid by the Insurance Committee, and the total amount deducted from the sum payable to the Council for the year under the agreement.

Sussex.—The East Sussex Insurance Committee has announced that the outstanding balance of last year's accounts will be paid immediately. The Brighton Committee has made no such announcement, but information from headquarters suggests that an early payment may be expected.

West Hartlepool.—The Pharmaceutical Committee on May 28 unanimously adopted a resolution, which was forwarded to the Insurance Committee, expressing strong dissatisfaction that the Insurance Commissioners had not forwarded the necessary amount to enable the Committee to pay the balance of 10 per cent. due on last year's chemists' accounts, and also strongly protesting against the heavy deduction of 30 per cent. made on their accounts for the first quarter of the present year, these imposing an unfair financial strain upon local chemists, which they regard as absolutely intolerable. After pointing out that the quantities of medicines supplied are entirely outside chemists' control, the Pharmaceutical Committee request the Insurance Committee to demand from the Insurance Commissioners "an assurance that all arrears will be paid within a reasonable time."

Worcester.—Statistics presented at the Insurance Committee's last meeting show that the Drug Fund for the medical year 1913 related to a mean number of 89,024 insured persons. Chemists' bills totalled 5,384l. 19s. 7d., and doctors for dispensing were paid 2,055l. 5s. 4d.—a total of 7,440l. 4s. 11d., all of which has been paid. The total number of prescriptions was 191,816. In the first quarter of 1914 chemists' accounts were 2,019l. 7s. 4d., doctors' accounts 549l. 1s., or 6.4d. per head of insured persons, as against 5d. per quarter last year. The proportion of men to women among the insured persons was three men to two women. About 190 doctors in rural areas dispensed medicines for about 20,000 insured persons. The Panel Committee's recommendation that no prescription shall be dispensed if presented later than forty-eight hours after its issue has been adopted by the Insurance Committee.

SCOTLAND.

A Meeting of the Pharmaceutical Standing Committee (Scotland) has been called for Friday, June 5, when it is expected that a statement from the Commissioners re the Drug Fund will be available.

Aberdeenshire.—The County Insurance Committee, at a meeting on May 29, had again under consideration the applications by certain panel doctors to be allowed to dispense medicines to their insured patients on a capitation basis. The Panel and Pharmaceutical Committees have been consulted on the subject, and their views were submitted. Deputations from these Committees attended the meeting of the Medical Benefit Sub-Committee, and the whole question was fully discussed. It was agreed to recommend that the present arrangement with the doctors mentioned in the correspondence should be continued, except in the case of Dr. Profeit (Ballater) and Dr. Cran (Banphory), the arrangement with whom, for dispensing, it is recommended should terminate at the close of the current quarter, and in the case of Dr. Henry, that the arrangement with him should also terminate at said date, except as regards those of his insured patients who are nearer to his dispensary at Balmoral than to the chemists at Ballater. The report of the Sub-Committee was approved.—The Finance Committee reported in connection with the 20-per cent. deduction from doctors' payments and chemists' accounts, and it was resolved that the Committee make immediate representation to the Insurance Commissioners to the effect that protests had been received from the chemists and doctors against the action of the Committee in not fulfilling their bargain, and that the Committee be immediately placed in funds in order that they may pay both chemists and doctors 95 per cent. of the amounts due to them.

Dundee.—A meeting of panel chemists was held on Tuesday, June 2, Mr. Stephen presiding. Mr. J. Rutherford Hill and Mr. Bennett (Arbroath) were present, along with a larger representation of local chemists than had ever before been assembled. From the outset feeling ran very high against the terms of the dispensing agreements. Mr. Hill explained the remedies which are being tried in different areas to prevent discounting of bills, and suggested an outline for future action. A motion embodying a very

drastic step was put to the meeting, but it was considered premature, and the proposer was asked to hold it over until Tuesday, June 9, as in the interval a report will be supplied of the meeting of the Standing Committee on Friday, June 5.

Fifeshire.—At a recent meeting of the County Insurance Committee held at Kirkcaldy, a statistical report was submitted showing that 8,000 insured persons on the medical practitioners' lists had not been paid for by the Committee. The Clerk was instructed to press the Commissioners for payment.

Roxburghshire.—At a recent meeting of the Panel Committee, held at St. Bothwells, it was reported that in 1913 the practitioners' fund amounted to 5,096*l.*, and the Drug Fund to 1,568*l.* The doctors had been paid 5,678*l.*, or 582*l.* more than they were entitled to, owing to a discrepancy of 1,500 more index slips than contribution cards. The panel chemists and dispensing doctors had been paid 1,150*l.* out of the Drug Fund, leaving a credit balance of 418*l.*, and from this 392*l.* was appropriated as the floating sixpence for doctors, which, however, will be used to repay part of the 582*l.* above referred to. The 26*l.* remaining in the Drug Fund is to be distributed among the panel chemists. In view of the position of the funds, the Panel Committee decided that panel practitioners could not afford to agree to the proposed increase in the charges in the Drug Tariff and dispensing-fees.

WALES.

Breconshire.—At the Insurance Committee's last meeting payments were passed to chemists for 226*l.*, and for 57*l.* to practitioners for dispensing services.

Notes.

THE BRITISH MEDICAL ASSOCIATION'S Insurance Act Committee has appointed Drs. E. R. Fothergill (Brighton), I. W. Johnson (Bury), A. E. Larking (Buckingham), Edmund Barker (Hull), A. S. J. Pearce (Cardiff), A. C. Farquharson (Spennymoor), and B. A. Richmond (London) as a sub-committee to confer with the representatives of the Pharmaceutical Council with regard to the revision of the Drug Tariff and collateral matters.

THE PANEL SYSTEM.—At the annual meeting of the Hearts of Oak Benefit Society on June 2, the President (Mr. W. Westcott), in the course of his address, and speaking with reference to the doctors and the panel system, said he did not think that, in view of all the difficulties that had existed in bringing the doctors into line, they could form a proper judgment. As to whether the panel system would ultimately prove successful, or whether it would have to give way to the necessity of a State medical service, it was perhaps yet too early to speak with any confidence; but, so far as his own district was concerned, he could certainly express his pleasure that matters were working very smoothly indeed, a result which was largely due to local efforts made to come into close touch with the doctors. At the Order of Druids' meeting on June 3, the Manchester system was referred to, and Bro. T. Roberts (Manchester) said that, whatever the faults of the panel system, it is obviously much better than the Manchester system of paying on results.

SUMMER OUTINGS.

A Day at Montrose.

THE Dundee and East of Scotland Pharmaceutical Association held their annual outing on May 20 at Montrose. A golf competition was played off during the forenoon. Mr. A. Y. Barrie returned the best card (78), and so won the prize of a driver presented by Mr. John Gray; Mr. G. F. Johnston was second with 85, and Mr. Savage (P., D. & Co.) third with 86. The whole party, numbering over fifty, had dinner in the George Hotel, and afterwards drove round the Trail Drive, getting a fine sight of the splendid Montrose Sands; thence to the aerodrome, where the aeroplanes were inspected and their working was explained. The drive was then continued by Craig's Woods, and was much enjoyed. On returning to the hotel tea was served, after which the Montrose chemists were thanked for the splendid arrangements which they had made for entertaining the party, to which Mr. Ritchie suitably replied. Mr. Hutton (Breechin) extended an invitation to hold the next outing in Breechin. This was agreed to, and he was thanked for the invitation.

THE IMPORTS OF CHEMICALS, drugs, and perfumes into the port of Coquimbo during 1913 amounted in value to 33,730*l.*, against 2,190*l.* in 1912 and 8,685*l.* in 1911.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Council-meeting.

THE monthly meeting of the Council was held at 16 Bloomsbury Square, London, W.C., on June 3. A resolution of regret was passed on the death of Sir Joseph Swan, who was an honorary member and a registered chemist and druggist. This being the first meeting of the new Council, the elections of officers took place. Mr. E. White was re-elected President, Mr. E. T. Neathercoat was elected Vice-President, and Mr. W. H. Gibson was re-elected Treasurer for the fifth time. From the Benevolent Fund 126*l.* was granted to nine applicants. The new Committees were appointed. Mr. Parry raised the question of Insurance dispensing for seamen when on shore, which is to be considered by the Local Associations Executive Committee. The report of the last-named Committee was received by the Parliamentary and General Purposes Committee. A deputation has been arranged to place before Mr. Masterman the question of the deficiency in the Drug Fund.

THE councillors present were Messrs. C. B. Allen, F. F. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, W. I. Currie, F. J. Gibson, W. H. Gibson, R. L. Gifford, D. Gilmour, J. F. Harrington, J. Harrison, E. T. Neathercoat, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, E. White, T. A. White, and J. R. Young.

Mr. E. White occupied the Presidential chair and Mr. Campkin the vice-chair.

DEATH OF SIR JOSEPH SWAN.

The minutes of the Council-meetings on May 9 and 2 were read and confirmed.

The CHAIRMAN then referred to the death of Sir Joseph Swan, who was an honorary member and also a chemist and druggist. Without entering into details of his career, Mr. White mentioned that Sir Joseph was in his early days intimately connected with pharmacy. He proposed the following resolution, which was adopted:

This Council records its regret at the death of Sir Joseph Wilson Swan, F.R.S., a registered chemist and druggist, and since 1904 a greatly esteemed honorary member of the Society. The Council recalls with pride the achievement of its late member in the applications of science to industrial processes, and the recognition accorded to him by the whole civilised world, to the benefit of whose citizens he had so materially contributed by his discoveries. The Council further remembers with gratitude the long-sustained interest in the scientific and educational work of the Society manifested by Sir Joseph, and the close connection he maintained with many of its prominent pharmaceutical workers.

Mr. HARRISON said that Sir Joseph Swan was born at Sunderland, but soon afterwards became a distinguished citizen of Newcastle. He was, however, a citizen of the whole Empire, although, great as his fame is in the whole civilised world, it is nowhere greater than in the North of England.

ELECTION OF PRESIDENT.

The voting-papers for the President for the ensuing year were then distributed, and Mr. Woolcock went round with the historic ballot-box to collect the papers. The papers were then opened out, and it was found that seventeen councillors had voted for Mr. E. White, or for Mr. Young, and there was one blank paper.

The PRESIDENT thanked his colleagues for re-electing him, and said he would do his best in the interests of pharmacy at large.

ELECTION OF VICE-PRESIDENT.

The same process was repeated for the election of the Vice-President. On examining the papers it was found that sixteen votes had been given for Mr. Neathercoat, one for Mr. Campkin, and that there were two blank papers.

The PRESIDENT announced that Mr. Neathercoat had been elected and congratulated him.

Mr. NEATHERCOAT asked the Council to accept his sincere thanks for the great compliment it had paid him. He considered it a great honour to be elected to the position from the ranks of pharmacy, and even more so because the choice had fallen on a young man. He fully realised that the position carries with it many important duties and responsibilities, and he would do his best to carry these out to the satisfaction of his colleagues. He accepted the position the more readily because it gave him an additional opportunity of doing further work for the good of pharmacy.

MR. CAMPKIN THANKED.

Mr. YOUNG, as senior past President, proposed a vote of thanks to Mr. Campkin, the retiring Vice-President. He had always found Mr. Campkin a pleasant and genial colleague, and he thanked him for his graceful and able services during the past twelve months.

The resolution was adopted, and, in reply.

Mr. CAMPKIN expressed his disappointment at not being re-elected to continue his association with the President. He hoped his successor would perform the duties with greater success than he had been able to do, but it would be impossible to do them with greater enthusiasm or more desire to maintain the dignity of pharmacy.

ELECTION OF TREASURER.

A ballot was then taken for the election of Treasurer. This resulted in seventeen votes being recorded for Mr. W. H. Gibson, one for Mr. F. J. Gibson, while one paper was a blank.

The PRESIDENT, announcing the result, said the treasurerhip could not be in abler hands.

Mr. W. H. GIBSON thanked the Council for electing him for the fifth time as skipper of the good ship "I. S. D." which had been on a longer voyage than he anticipated when he first went aboard. The experience had been a pleasant one, as the crew had behaved in an exemplary manner and the passengers on board all first class—these were the councillors, he explained. Continuing the nautical simile, Mr. Gibson said that he had not encountered a single adverse breeze, and had no doubt that the same peaceful conditions would continue during the next year.

OTHER OFFICERS APPOINTED.

The following officers were then re-appointed for the ensuing year: Mr. W. J. Uglov Woolcock, Secretary and Registrar; Mr. A. J. Chater, Assistant Secretary; Mr. H. Moon, Deputy Registrar; Mr. W. S. Glyn-Jones, M.P., Parliamentary Secretary; Mr. J. T. Humphrey, Editor of the "Journal"; Mr. E. M. Holmes, Curator; and Mr. J. R. Hill, Resident Secretary in Scotland.

Later on in the meeting it was resolved that the salary of the Secretary and Registrar for the ensuing year be at the rate of 800*l.* per annum, and that it be a recommendation that it be increased by annual increments up to 1,000*l.*

ELECTIONS AND RESTORATIONS.

The Standing Orders were adopted without comment.

Next six members of the Society were elected and twelve student associates. Seventy-eight persons were restored to their former positions in the Society, and four persons had their names restored to the Register of Chemists and Druggists.

FINANCE.

The report of the acting Finance Committee was next submitted by the Treasurer. The receipts on the General Fund amounted to 1,117*l.* 4*s.* 9*d.*, made up as follows: Penalties and costs, 90*l.* 8*s.* 10*d.*; subscriptions, 434*l.* 14*s.*; "Journal" and publications, 334*l.* 6*s.* 2*d.*; restoration-fees, etc., 15*l.* 5*s.*; registration-fees, 142*l.* 16*s.*; rent, 54*l.* 2*s.* 11*d.*; school-fees, 22*l.* 1*s.*; ground-rent, 23*l.* 10*s.* 10*d.*—making, with the sum carried forward, 1,399*l.* 5*s.* 11*d.*, from which the following payments were recommended to be made: "Journal" and publications, 210*l.* 17*s.* 8*d.*; stationery, etc., 61*l.* 10*s.* 1*d.*; current expenses, 250*l.*; salaries, etc., 858*l.* 10*s.* 4*d.*; school and examinations, 38*l.* 14*s.* 5*d.*; law and professional charges, 30*l.* 18*s.* 6*d.*; house, 30*l.* 9*s.* 8*d.*; and sundries, 52*l.*—a total of 1,533*l.* 0*s.* 8*d.* The balances on the Benevolent

Fund were shown as follows: Current account, 1,003*l.* 8*s.* 8*d.* (recommended for payment, professional charges 45*l.* 16*s.* 2*d.*); donation account, 89*l.* 0*s.* 1*d.*; Orphan Fund, 29*l.* 19*s.* 8*d.*

The TREASURER, in moving the adoption of the report, said it was of a normal character, the balances being practically the same as at the corresponding period last year. He mentioned that the subscription of the Mansfield Pharmacists' Association to the Benevolent Fund had been increased this year to two guineas.

The report was adopted.

BENEVOLENT FUND.

Mr. ROGERS presented the report of the members acting as the Benevolent Fund Committee, from which it appeared that grants amounting to 126*l.* were made to nine applicants for assistance. These cases, explained Mr. Rogers, were on the usual lines, but he gave some interesting details of two of the cases. He also mentioned that the widow of an annuitant who had received assistance had written relinquishing her grant owing to an improvement in her position.

The report was adopted.

SCHOOL AND MUSEUM.

The Library, Museum, School, and House Committee's report was presented by the President. The Dean of the School reported that an application had been received for the return of fees paid for a student who was obliged to relinquish his studies. The student was informed that the person who paid the fees should make application to the Secretary. The Dean also reported on the conditions required for obtaining the increased grant from the Board of Education in respect of the proposed recognition of the School of Pharmacy as a "Technical Institution." The Secretary was directed to inquire whether it would be possible for the Board's Inspector to attend the next meeting of the Committee for the purpose of explaining the conditions attached to the proposed recognition. Regarding the Library, suggested additions asked for by members were considered, but a correspondent was informed that an horticultural reference-work was not within the scope of the Society's objects. Specimens of "Terra sigillata," of which duplicates are contained in the Museum, were presented to the Wellcome Historical Medical Museum. The matters dealt with connected with the house were approval of a bill for repairs amounting to 4*l.* 2*s.*, and the selection of a vacuum cleaner. It was also reported that the house porter, Hobbs, is seriously ill and would not in all probability be able to resume his duties again.

The report was adopted.

SCIENTIFIC ADVISORY COMMITTEE.

The first meeting of the recently appointed Scientific Advisory Committee was held on May 27, when approval was expressed regarding the attitude of the Council in relation to the future production of the British Pharmacopœia. The Committee discussed at some length the question of the revision of the British Pharmaceutical Codex, and several members expressed the hope that those features of the work which are calculated to foster the hostility of certain manufacturers might be avoided in any future edition. The PRESIDENT assured the Committee that the Council is not desirous of incurring unnecessary odium and would certainly not deliberately retain objectionable features for which there is no reasonable justification. Eventually a recommendation that a further edition of the Codex should be published, and that a sub-committee be appointed to take in hand the revision of the book, was carried.

Mr. GIFFORD said he should like to congratulate the Council on the appointment of this Committee, which contained "the best brains of pharmacy."

The report was adopted.

REGISTRAR'S REPORT.

The Registrar reported that during the month he had registered fifty-six apprentices or students.

PARLIAMENTARY AND GENERAL PURPOSES.

The members acting as a Parliamentary and General Purposes Committee presented a report which dealt with

the appointments on the various Committees. The changes in *personnel* were slight except in the case of the "Journal" and Law Committees. The first-named now has as members Messrs. Currie, Gifford, Harrison, Sargeant, and T. A. White; while of the Law Committee the following are members: Messrs. Allen, Cuff, Hagon, Harrington, Rowsell, and Young. The President and Vice-President are *ex officio* members of all Committees. The acting Committee also received information that Professor A. W. Crossley had been ill; and Mr. Parry brought forward a point regarding a would-be candidate for the Manchester scholarship who did not fulfil the condition regarding associateship of the Society.

INSURANCE MATTERS.

This Committee received the report of the Local Associations Executive Committee, at the meeting of which the Secretary reported upon his work in connection with the attempt to deal with the position of the deficient Drug Fund areas in Lancashire and elsewhere, and pointed out that it had been decided at a joint meeting of Insurance Committee representatives, Panel and Pharmaceutical Committee representatives of Lancashire that the suggestions made on behalf of the pharmacists should not for the present be carried out. The Committee discussed the draft model scheme for the constitution of Pharmaceutical Committees issued by the Commissioners, and the President reported that he had taken the opportunity of issuing a circular letter of advice embodying an offer to allow the Registrar of the Society to be nominated as returning officer for the elections and to bear the expenses in the case of Committees which are without administrative means. The Committee approved of the action taken. The Committee resolved to recommend that local Associations be advised to adopt the model scheme in its entirety, and that a letter of instructions be issued subject to the approval of the President and Secretary. The Committee considered the various schemes submitted for electing on a territorial basis the seven representatives of the Associations on the Executive Committee. A long discussion ensued. Eventually it was decided that in view of the diversity of opinion existing among the members of the Committee on this question, the schemes drawn up at the suggestion of the Nottingham Association and by the Secretary and by Mr. Deakin be sent for consideration to the next Local Associations Conference. The Secretary reported that in compliance with the instructions of the Committee last month he had circularised the Pharmaceutical Committees in England and Wales for information respecting over-spent areas. Letters were sent to 139 areas—English 123, Welsh 16—and replies had been received from 113 in England and thirteen in Wales. The following is the result of the information collected:

	England.	Wales.
Paid in full ...	48	8
Balance owing ...	37	3
Deficiency ...	28	2
No reply ...	10	3
	123	16

In consequence of efforts made by Mr. Glyn-Jones, Mr. Masterman has promised to receive a deputation soon after Parliament meets. The following were appointed as the deputation to Mr. Masterman: Messrs. Deakin, Kemp, Neathercoat, Rowsell, Sargeant, and Waring, the President and Secretary. The Committee considered the question of the Drug Tariff for next year, and after discussion it was decided that the matter be referred to the Local Associations Conference to be held on July 15.

The report was adopted.

INSURED SEAMEN.

Mr. PARRY brought forward the question of dispensing for members of the Seamen's National Insurance Society, which is an important question in Liverpool, where not only sailors but shore workers belong to the Society. The practice is for the Insurance Committee to allow a certain proportion of the Drug Fund to the Insurance Society, and this is paid out to medical officers of the Society who do their own dispensing, not only when

they are ships' officers, but when they are engaged in practice on land. There are special regulations governing the practice, and Mr. Parry asked that the matter be looked into by the Secretary and considered by the Associations Executive. His (the speaker's) attention had been called to the matter through requests from working men that they should be able to get their dispensing done at chemists' shops.

It was agreed that the matter be considered by the Committee as suggested.

ANNUAL MEETING SUGGESTIONS.

The SECRETARY said he had tabulated the various suggestions made by members at the annual meeting, and these were referred for consideration to various Committees. The suggestion that annual subscribers be excused further payments after a certain number of years is to be considered by the Finance Committee, the time of meeting by the House Committee, the question of carriage on books by the Library Committee; and to the Finance Committee was referred the advisability of the revision of amounts at which the Society's securities stand in the balance-sheet.

CORRESPONDENCE.

The College of Preceptors reported that a pharmaceutical student had tried to secure registration by fraudulent means, and is to be debarred from entering again for any of the examinations of the College.

The British Pharmaceutical Conference invited the Society to send delegates to the meeting at Chester, and several members gave in their names for this purpose.

The North London Pharmacists' Association suggested that the evening meetings of the Society should be arranged for some other day than Tuesday. This was referred to the Scientific Advisory Committee.

The Privy Council forwarded a list of patent medicines which have been registered in Hungary.

The Institute of Chemistry wrote asking for laboratory accommodation for examination candidates. The date, it was stated, would clash with the Society's July examinations, but the Secretary thought he would be able to arrange matters.

The Lancaster Pharmacists' Association wrote objecting to the Assistants to Chemists and Druggists (Qualification) Bill. This was referred for consideration by the Law Committee.

This concluded the public business.

ASSOCIATION AFFAIRS.

Bolton.—The members of the Bolton Pharmacists' Association on May 27, at the invitation of the President (Mr. Herbert Knott) joined in a game of bowls at the Astley Bridge Bowling Green, and were afterwards entertained to tea by Mrs. Herbert Knott.

Brighton.—There was a good muster of members at a meeting of the Brighton and Hove Association of Pharmacy held at the Camera Club, Castle Square, Brighton, on May 27. In the absence of the President, the chair was occupied by Mr. A. J. Franklin. Among other correspondence, Mr. C. S. Ashton (Hon. Secretary) read a letter from Mr. W. W. Savage drawing attention to the Botanical Garden in Queen's Park, which has been specially laid out for scientific students. A suggestion that Insurance prescriptions should in future be headed "To be taken to any chemist on the panel" was referred to the Pharmaceutical Committee. The Chairman gave a *résumé* of the Pharmaceutical Society's annual meeting, with comments. Consideration was given to the communication from Mr. E. Saville Peck, M.A., regarding the suggested code of rules to secure uniformity in dispensing. There was much diversity of opinion as to the question of percentage solution, but a majority advocated the adoption of the rule to take all ingredients by weight, scientific accuracy being preferable to custom or convenience. There was also a strong feeling denouncing the prescribing of proprietary articles, and it was thought that some of the proposed rules might assist in the extension of this practice. It was suggested that before the adoption of any code of rules there should be collaboration with the British Medical Association.

Colwyn Bay.—The annual meeting of the Colwyn Bay Pharmacists' Association was held on May 12. The follow-

officers were appointed: Mr. Sykes *Chairman*, Mr. Hill *Treasurer*, and Mr. C. F. Adamson *Hon. Secretary*.

Essex.—The Committee of the County Pharmaceutical Association met in London on Wednesday after the Pharmaceutical Committee-meeting (p. 52). Arrangements were made for the election of the new Pharmaceutical Committee, and it was decided to ask the members to support every one of the present Committee who seeks for re-election. Mr. J. H. Heywood (Southend-on-Sea) and Mr. C. Goode (Hon. Secretary) are not seeking re-election. Mr. Heywood's chief interest will in future be centred in Southend, which is now a county borough. The names of two chemists and druggists will be put forward in the places of Mr. Heywood and Mr. Goode, and each panel member will be asked to support them.

London (S.E.).—A meeting of the South-East London Pharmacists' Association was held on May 28, when Mr. Y. Fairweather was in the chair, and Mr. J. Noble, the North London Pharmacists' Association, read a paper *System in National Insurance Dispensing*. Mr. Noble emphasised the necessity of co-operation with kindred associations in London by members visiting each other's meetings for the interchange of ideas and opinions. The address was of a practical kind, demonstrations being given of special methods of dispensing, the necessity of system being urged. A competition as to the proper method of folding filter-paper was introduced and a time test made, which proved conclusively the advantages of the method suggested. The majority of the members present folded according to the wrong method. A vote of thanks was given to the lecturer.

Manchester Assistants.—The annual meeting of the Manchester, Salford, and District Chemists' Assistants' Association was held at the Clarion Café, Market Street, Manchester, on May 27, and was preceded by a social half-hour with coffee, an innovation which the Chairman indicated might become a precedent for future meetings. The retiring President (Mr. Jas. Grier), who occupied the chair, reviewed the various activities of the session. The Treasurer's report showed a balance to the good on the year's working of twenty guineas. The election of officers for the coming session resulted as follows: *President*, Mr. V. Kirby; *Vice-President*, Mr. D. N. Fullerton; *Treasurer*, Mr. G. S. T. Livesey; *Hon. Secretary*, Mr. Walter Jones; *Auditor*, Mr. J. E. R. Holman; other members of *Committee*, Messrs. Badrock, Borries, Burton, Craig, Dickinson, Doran, Grier, Hough, Kelly, A. Kirby, H. Levi, Lomax, Stuard, Swinn, Wilkinson, and Woodhead. A vote of thanks was accorded to the retiring President, who was congratulated on his appointment as President of the Manchester Pharmaceutical Association. The prizes won in the recent prize competition were then distributed to the successful competitors: First prize, Remington's "Pharmacy," presented by Messrs. Burroughs Welleome & Co., to Mr. Guy P. Jos, c/o Boots, Ltd., Kearsley; second prize, books value one guinea, presented by the Council of the Manchester Pharmaceutical Association to Mr. R. Hicemott Pearce, c/o Mr. J. Miller, Whalley Range; third prize, Squire's "Companion," presented by the Committee of the Assistants' Association, to Miss Winifred Sharples, c/o Mr. W. Shiples, New Mills. The Chairman announced that Mr. F. V. Bates, while President of the Manchester Pharmaceutical Association, had offered a series of three prizes for a label-writing competition, which would take place during next session.

Plymouth.—The quarterly meeting of the Plymouth, Devonport, and Stonehouse Association of Pharmacists was held at 7 Whimble Street, Plymouth, on May 28, the President (Mr. A. J. Ancliffe) in the chair. There was a fair attendance of members. Mr. Lawrence Spear was elected Hon. Solicitor to the Association in the place of Mr. Ginn, who has left the neighbourhood. It was decided that members of the Association attending the British Pharmaceutical Conference at Chester in July be asked to act as delegates. Junior Section matters were discussed, and deferred until the next Committee-meeting.

Warwickshire.—A meeting of the Warwickshire Pharmaceutical Association was held at the Masonic Rooms, Leamington, on May 20, a report of which has been furnished to the members.

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association was held on May 27. Mr. Hall was in the chair, and there were also present thirteen members and Mr. J. H. Coleman (Hon. Secretary). It was decided to hold the annual outing at Warwick and Leamington on June 25. A letter of sympathy was sent to Mr. F. A. Willcock, who has met with an accident. The President stated that over 102 has been collected for the Pharmaceutical Parliamentary Fund. The questions sent by Mr. Peck about abnormal prescriptions were discussed, and the Secretary was instructed to forward suitable answers.

Swiss Pharmacy.

PHARMACY in Switzerland is now undergoing a process of revolution of interest to chemists in Great Britain, many of whom can speak feelingly of what competition means. Philosophers tell us that competition in itself is a good thing, but many struggling chemists consider they have done nothing to deserve such goodness. Chemists in Switzerland had been having quite a good time until recently.



PHARMACIE PRINCIPALE.

Now the cash, cutting, or store chemist has appeared in the land; two years ago he startled the public of Geneva with his cheap prices. Madame Schmidt is just as keen as our Mrs. Smith in matters of domestic economy, and to those who delight in filling themselves with drugs this was good news. But to the pharmaciens it was a nasty knock. They were a united body, however, and, knowing to what a state French pharmacy had fallen, they resolved to crush their common enemy before much harm had been done. Not only the retail pharmaciens, but the wholesale chemists united in a body to boycott and crush the store man. Wholesale firms of other countries, too, were politely asked to cease supplying the enemy, the Pharmacie Principale of Geneva, the subject of this article, or their orders for the other chemists in the whole of Switzerland would cease, and their travellers might as well stay away and save their Customs charges. These foreign firms, including English houses, regarded the matter in various ways, and the Pharmacie Principale made the best of this boycotting in their publicity department. Full-page advertisements in the local Press, with imaginary trains bringing pharmaceutical products from the four corners of the earth for the long-suffering public, appealed to the latter and won its sympathy.

That the public appreciated cash prices was soon apparent; the new pharmacy, though large, was continually thronged, and the staff had the greatest difficulty in meeting the demands of the customers. Time after time the premises have been enlarged, the process being almost continual, and each time the public was duly informed of the fact; the laboratory and room for putting up stock have already invaded the premises next door.

In the accompanying illustration the first department entering the pharmacy is for patents, and as Geneva is a most cosmopolitan town a large and varied stock has to be kept—English, French, German, Swiss, etc.—the stock of English patents being as complete as in most English pharmacies. The second department is for the specialties of the firm and for packed goods, herbs figuring largely; the third is for retail drugs and mineral waters, and the dispensing department is behind it, with half-a-dozen men, who are kept going all the day. There is a special department on the first floor for bandages, trusses, elastic stockings, etc., with a lady attendant. Silverware is not stocked, nor photographic materials. Generally speaking, English goods are preferred. "Made in England" being looked upon with favour. The assistants, numbering about fifty, are very cosmopolitan, and between them speak most of the European languages. The other pharmaciens, seeing that the new venture was succeeding, formed a limited company among themselves and opened an opposition pharmacy on similar lines, with the object of shutting up the Pharmacie Principale, and later on opened a branch, and intend opening further branches; they even went so far as to have a lottery, each purchaser of a given amount receiving a ticket, first prize being 1,000f. Now there is a price

war, and the people smile and the other chemists look sad.

Here are a few of the prices of English patents to give an idea of the cutting: Alcock's plasters 5½d.; Sen-Sen 2d.; Elliman's embrocation, 1s. 2½d. and 2s. 7d.; euthymol tooth-paste, 9d.; glymicl, 5½d. and 9½d.; Pears' soap, 4d. and 3d.; Pond's extract, 1s. 1d. and 2s. 2½d. After paying carriage and Customs duties there is nothing left for the chemist in these prices.—(227/70.)

VETERINARY NOTES.

By a M.R.C.V.S.

Dropsy in Sheep.

THIS is a disease more or less subject to the seasons. It is usually seen in wet and cold weather and on moist and marshy pastures; it is also caused by rotten turnips and deficiency of food. Prevention is of paramount importance, as when there is an outbreak treatment is usually of no avail. The symptoms resemble those of fluke or liver-rot; these are watery and bloodless eyes, watery swellings between the jaws, intense swelling of the belly, lassitude and dulness, with no inclination to move about, panting and deep and laboured breathing and heaving, constipation and latterly diarrhoea, frequency in voiding urine, which is passed in large quantities, is of a pale colour or tint, while as the disease progresses the urine may not be passed at all, this exaggerating the disease and hastening death. *Post-mortem* examination reveals watery and anæmic flesh and softening of the kidneys, so that the latter resemble rotten cheese or pears. As already mentioned, preventive measures must be taken by seeing to better feeding, shelter, and dryness of the pastures. It is advisable at this time to consider and make provision for future seasons. Treatment is usually unsuccessful, but good may result if it is adopted before the disease has gone too far. A course of the following may be given twice or thrice daily:

Ferri sulphat. ... 3j.
Pulv. gentianæ ... 3j.—M.

Should the animal be very valuable or pedigreed, a thorough continuous and persevering course of nursing may prove effectual, but it is seldom the animal is much good afterwards. Give tr. ferri perchlor. 5j.-5ij. three times daily, and after a time, when an improvement is seen, the following should be given twice or thrice daily:

Ammon. carb. ... 3j.
Spt. æther. nit. ... 3ij.
Tr. camph. eo. ... 3ij.
Tr. gentianæ ... 3ij.—M.

Retention of Urine in Dog.

THIS is usually a complication of some other disease such as paralysis, effects of certain medicines (i.e., cantharides), enlargement of the prostate gland, calculi in the bladder or urethra, obstruction of the urethral opening, etc. The symptoms are severe pains, violent straining, frequent and ineffectual attempts to urinate, only a few drops being discharged at a time, faces of a high colour, and the animal displays various signs characteristic and easily observed as pertaining to the urinary organs. The treatment is to find out the cause and act accordingly; pass catheter (no matter from whatever cause, the catheter must be passed to give immediate relief), foment or poultice over loins and hips and down course of penis, and give hyoscyamus or opium internally. Feed on milk, eggs, beef-tea, and mucilaginous drinks. It may be necessary to pass the catheter several times daily until the cause of the disease is removed.

Naturalists' Congress.—This year's Congress of German naturalists and doctors will be held at Hanover from September 20 to 27. On the evening of September 22 the members of the Pharmaceutical Section will hold a *fête*.

Brunol Bottle-caps.—The Chemische Fabrik von Heyden in Raddeul-Dresden have introduced a new self-fixing bottle-cap, which is supplied either transparent or opaque and in all colours. The cap fits itself to the shape of the stopper on drying.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealer receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., June 4, 6.30 p.m.

THE holiday mood has not yet left the market, and comparatively little business is being done, but a better feeling exists. The hot weather has increased the demand for citric acid, but deliveries are difficult to get. The most prominent features of the short week are the stiffening in ergot prices owing to short supplies, a further firming of the price of chrysophanic acid, and an advance in chloral hydrate. The following table puts the changes in brief:

Higher	Firmer	Easier	Lower
Belladonna-root	Cantharides	Cod liver oil	Salol
Chloral hydrate	Cocaine		
Chrysophanic acid	Ergot		
	Morphine		
	Opium		
Gallie acid	Peppermint		
Nux vomica	oil		
Thymol	Turpentine		

Cablegrams.

BERGEN, June 3.—The past week's fishing at Finmarken brings up the total catch of cod this season to 71,662,000, against 66,646,000 last year. The yield of oil is estimated at 52,140 hectolitres, against 41,800 hectolitres last season. The latest reports from Finmarken are to the effect that the fishing is improving, and in consequence the market is easier at 70s. per barrel f.o.b.

NEW YORK, June 3.—Business on this market is fair. Opium is steady at \$6.80. Peppermint oil is firmer, but \$4.25 remains the quotation. Tolu balsam is lower at 53c. Menthol easier at \$3. Buckthorn bark is dearer at 15c. Copaiba is easier, 41c. being to-day's quotation. Cascara sagrada is steady at 8c. per lb., and American saffron easier at 55c.

London Markets.

BELLADONNA-ROOT is dearer this week, owing to the exceptional scarcity; as much as 70s. per cwt. is wanted by holders.

BENZOIN is selling slowly at last auction rates. Twenty one cases of Palembang have been landed.

BUCHU.—The news in regard to the crop reports does not carry the information beyond what was reported in our issue of May 23. The resolution come to by the Cap Provincial Council (see p. 60) is of importance as regard future supplies.

CAMPHOR.—Refined is firm, following upon the recent advance in English flowers and the short supply of crude. Sales are reported of January shipment 4-oz. Japanese tablets at 1s. 9½d. The situation is dealt with in an article on p. 49.

CANTHARIDES.—Russian is still very scarce, only very small lots coming on to the market and readily fetching 7s. per lb.

CAPRICUMS are slow of sale, 171 bales Bombay yellow and reddish part perished offered at auction being bought in at 30s. to 33s.

CASCARA SAGRADA.—Old bark is scarce; some that has been in London warehouses for eight years has been sold this week at 37s. 6d. per cwt., and cannot be replaced

CASSIA FISTULA.—Since cable orders meet with no reply, it is to be assumed that the reports received by mail from the producing districts are correct that a very small collection has been made this year. European stocks are comparatively small, and a strong upward tendency has set in; 20s. to 21s. c.i.f. is now asked.

CHLORAL HYDRATE, after a long period of depression and falling prices, has suddenly recovered to 11½d. to 12d. per lb. for quantity, packages extra. Prices for packages are awaited from the Continent.

CHRYSOPHANIC ACID.—The continued scarcity of Goa powder affects the price of this product, and holders want 8s. per lb. now. The latest business done was at 8s. 6d.

CINCHONA.—At Amsterdam on June 12, 1,235 bales and 4 cases of bark (the latter pharmaceutical) will be offered at auction. These represent 95,927 kilograms of bark, and equal 2,777 kilograms of quinine sulphate.

Our Amsterdam correspondent, writing on June 3, says the N.V. Nederl. Veen reports that the shipments from Java to Europe during May amounted to 1,224,000 Amst. lb. against 976,000 Amst. lb. in May 1913. The total shipments January-May were 6,207,000 Amst. lb., against 562,400 Amst. lb. in May 1913.

CITRIC ACID is still very difficult to get, and makers would not accept more contracts at the prices last quoted. Should the weather continue to be warm, higher rates may be expected. From Hamburg it is reported that the America Agrumaria has again increased the price of lime juice by 10 lires per 100 kilos., but simultaneously offered somewhat larger quantity than in the spring months, in order to further the sales in the summer months. Of this year's Sicilian citrate production, probably two-thirds is sold, so that for the next seven months only a third is at disposal.

CLOVES.—Ten cases picked Penang were bought in at auction at 1s. 3d.; two cases Ceylon fair bright sold at 1½d. Privately, Zanzibar is quiet but steady, with lires of fair quality spot at 5½d., June-August delivery 4½d., and August-October 5½d. For arrival May-July shipment sellers at 5½d. and June-August 5½d., with buyers at 5½d. c.i.f. d.w.

COCAINE.—Firm. Several Continental makers have come to an informal agreement as to prices, and 4s. 1d. 4s. 2d. per oz. is the lowest that can be got now for the hydrochloride, on a parity with 140m. per kilo. in Germany. Crude is weak at 115m. The general feeling is that the bottom has been reached.

COCA-LEAVES.—In auction at Amsterdam on June 12 the leaves offered will equal 147,734 kilograms, with the approximate alkaloidal content of 2,532 kilograms.

The exports from Java to Europe during May amounted to 2,527 packages, against 2,484 packages in May 1913. The total exports January-May amounted to 13,657 packages in 1914 and 14,887 packages in 1913.

COD-LIVER OIL.—The market is still firm at last week's quotations for new Lofoten oil.

The following report is by Messrs. Freudentheil & Co.: The quantity of livers set aside for natural oils and the output of cod-liver oil up to May 30 were as follows:

	Catch of cod	Livers for raw oil (hect.)	Yield of c.l.o. (hect.)
Finmarken, 1914	13,753,000	1,902	9,286
do. 1913	25,478,000	2,195	16,272
Whole country, 1914	71,703,000	9,802	52,141
do. 1913	66,600,000	8,186	41,804

It will be observed by our cablegram from Bergen that the fishing has improved during the past week, and the market there is easier.

CREAM OF TARTAR.—Unchanged at last week's quotations.

DRAGON'S BLOOD.—The new arrivals are 8 cases of lump.

ENGLISH HERBS.—The belladonna crop promises to be an average one, but the henbane is thin. Lavender has suffered from the frost, and the crop of peppermint is poor.

ERGOT.—Several large parcels of Russian have recently been secured by Continental manufacturers, in consequence of which very little, if any, now remains on the spot in

Hamburg, and difficulty is being met with in obtaining any reliable offers from the Interior. At the present level of prices there is very little inducement offered to the local farmers to bring in hand-picked quality, and before anything definite can be known as to this year's crop the usual thrashing period, which takes place at the end of the year, must be waited for. Good sound on the spot 1s. 8d. to 1s. 11d. per lb. The c.i.f. price is 1s. 8½d.

EUCALYPTUS OIL.—A scarcity of amygdalina oil is reported on this market, but some is available at 10d. per lb. The demand for this kind of oil is now very limited in extent in this country compared with the greatly increased demand in Australia, where it is very largely used in certain mining processes, with the result that the Australian markets are of greater importance to distillers than are the American and European markets, which do not take more than 1 per cent. of the annual amount distilled. The demand for other kinds of oil has also diminished recently, but business is reported in so-called globulus oil, satisfying the B.P. and U.S.P. tests, at 1s. 3½d. per lb. Genuine globulus is 2s. per lb., in both cases in contract quantities.

GALLIC ACID.—Owing chiefly to the scarcity of Chinese galls, this acid is dearer, 1s. 8d. per lb. being quoted for cwt. lots.

GAMBOGE.—Seven cases of Siam lump have arrived in London.

GINGER was in fair supply at auction, but of the 772 bags offered only 41 bags Cochin washed sold at 25s., the remainder being bought in at 26s. to 30s. for Cochin and 26s. for brown rough Calicut. Of 161 packages Jamaica, five barrels middling sold at 42s.

INSECT-FLOWERS are quiet, but the demand is growing owing to warmer weather. Best closed flowers are quoted 120s. per cwt., but there is not much stock on the spot.

IPPECACUANHA.—Forty-four bales of Johore culture are coming forward at next auction.

LEMON OIL.—On the basis of a report about the Sicilian makers' meeting last Saturday, 6s. 8d. per lb. c.i.f. is reported as the normal price, but quotations on this market range from 6s. 3d. to 6s. 10d. c.i.f. The growers are considering an amalgamation, but so far nothing definite has been done towards that end, and buyers here seem sceptical. To-day one agent asks 7s. 4d. (substantially a rise of 6d.), and the market closes firmer.

LICORICE-ROOT.—Business has been done in rough root from the Persian Gulf and Levant at 12l. 10s. per ton ex wharf.

MADE.—West Indian was in good supply at auction, opening 1d. to 2d. lower, closing steadier, but being 1d. down on the average, 174 packages selling. Fair to good pale sold at 2s. to 2s. 2d., ditto palish at 1s. 10d. to 2s., pale and reddish at 1s. 10d. to 2s., fair to good red at 1s. 9d. to 1s. 10d., blood-red at 1s. 8d. to 1s. 9d., and broken at 1s. 3d. to 1s. 5d. Four cases mouldy Penang offered were bought in at 2s. 6d., and of four cases Java one case mouldy sold at 1s. 8d., the remainder, fair red, being bought in at 2s. 2d. Ten cases good bright Bombay Wild were taken out at 1s.

MENTHOL is unchanged from last week, 10s. 3d. being asked, but 10s. 1½d. would buy Japanese. *Mint oil* is unchanged.

MORPHINE is firmer in view of the opium-crop reports, but can be bought at last week's quotations.

NUTMEGS.—West Indian steady for larger sizes, small and medium ¼d. lower owing to defective condition. At auction, of the heavy supply of 516 packages West Indian, 512 sold: 68's at 7½d., 70's at 7d., 71's to 76's at 5½d. to 6½d., 78's to 79's at 5½d. to 5¾d., 82's to 83's at 5d. to 5½d., 85's to 92's at 4½d. to 5d., 93's at 4½d., 96's to 130's at 4½d. to 4¾d., defective from 3½d. to 6d., and 69's in shell at 3d. Two cases Penang sold, 75's at 7½d. and 14 cases lined Java, 76's at 5½d., 108's at 4¾d., broken and defective 3½d.

NUX VOMICA.—The continued scarcity of seeds, which have advanced by 25 per cent. recently, is having effect upon strychnine, which is very firm. The arrival of

784 barrels of seed by the *Clan Lindsay* is reported. The crop prospects in the East are still unfavourable, and the forward lookout is not good. The lowest quality is only available here, and 12s. 6d. per cwt. is the price for it.

OLIVE OIL.—The crop prospects are not promising, and the market is rather firm, at 4s. 6d. per gal. for medicinal oil in contract quantities.

OPIMUM is firmer, and is regarded in some quarters as slightly dearer, 15s. 3d. to 15s. 6d. c.i.f. having been paid for 11-per-cent., and 16s. c.i.f. is asked for 11½-per-cent.

A Smyrna correspondent wrote on May 22 that "early this week the Interior reported a material deficit in the crop owing to drought, and as a natural consequence small speculative purchases were effected, bringing up the price of 'extra' Karahissar (11½-per-cent.) to 16s. 3d. and 11-per-cent. Karahissar to 15s. 6d. Since Wednesday, however, copious rains have fallen all over the country, which very likely will save in part the reported deficit, and although prices have not receded, there is a feeling that holders will sell at a shilling lower. The sales in all amount to 15 cases for Interior and local speculators. Arrivals amount to 4,627 cases, against 2,420 cases."

A Constantinople correspondent, writing on May 30, states that the week's sales comprise 19 cases druggists' at ptrs. 218 to 225, three cases "softs" at ptrs. 240, and six cases Malatia at ptrs. 250 per oke. The demand continues, the market during the week being well maintained. Stocks in Constantinople have been well kept back, and the opinion is held that at the commencement of the new crop lower prices than the present cannot be expected. Arrivals this season (figures in parentheses relating to 1913) are: Druggists' 1,909 (1,304), "softs" 1,247 (862), and Malatia 346 (338). The stock consist of druggists' 298 (252), "softs" 55 (108), and Malatia 7 (63).

PEPPER.—Steady. At auction 50 bags Ceylon offered and sold, good heavy at 5½d., fair at 4½d., light shelly and small 4¼d. 134 bags Tellicherry were bought in at 5¼d., and 60 bags Lampong at 4¾d. The private market is quiet, with sellers of fair Singapore spot at 4½d., while August-October shipment sold at 4¾d. to 4¾d., and Lampong August-October shipment sold at 4½d. and buyers; Tellicherry August-October steamers sellers at 45s. 6d. and buyers 45s., all c.i.f. d.w. No business is reported on the terminal market yesterday. *White pepper* is quiet, 33 bags fine bold washed Muntok offered at auction being bought in at 1s. Spot demand is slow, with sellers of fair Singapore at 8½d. and fair Muntok 9d.

PEPPERMINT OIL.—American on spot is 18s. to 18s. 6d., and the market is firmer. In view of business done in New York by speculative buyers at 12s. 6d. per lb. for October-December, sellers here quote the same price c.i.f. for shipments then.

QUININE.—A decidedly firmer market. Agents for German makers have made large sales this week at 1s. 1d. for sulphate, and there have also been sales by second-hand holders at 1s. 0½d. It appears that speculators are renewing their interest in the article, and this feeling is traced to the persistence of bubonic plague in Java. The cinchona area is not yet touched, but the disease is spreading. The expected consideration of the price after the Amsterdam auction also seems to have awakened speculation.

SABADILLA-SEED.—Arrivals and sales of the new crop have been estimated to date at 1,000 bags. Further, about 1,000 bags afloat have been offered, for which 55s. first cost is asked without business passing. It appears to be confirmed that the total crop this season will not exceed 2,000 to 2,500 bags.

SAFFRON is firm. Beneficial rains have ameliorated the conditions for the new crop next November.

SALOL has been reduced to 1s. 9½d. per lb., and 1s. 8½d. in cwt. quantities.

SARSAPARILLA.—Native is in good demand, but supplies are scarce. The arrivals include 27 bales grey Jamaica, 9 bales of Lima, and 1 Native.

TARTARIC ACID.—Foreign crystals are quoted 1s. 0½d. per lb., and English 1s. 1½d.

THYME OIL is not likely to be much cheaper than at present. The Spanish crop is not good owing to drought, and the French is a medium one.

THYMOL is scarce and dear, and the makers have sold out, their price now being 7s. 6d. per lb.

TURPENTINE is firmer, this evening's price for America being 32s. 7½d. per cwt. spot.

The Tax on Buchu.

During the sitting of the Cape Provincial Council on May 14, Mr. Lawrence Woodhead, M.P.C., moved the representations be made by the Executive Committee of the Forest Department in regard to the excessive tax paid on buchu gathered on Crown lands, with a view to the reduction of the tax to 2s. per lb. It was only of recent years, he said, that buchu had been exported under tax it had been sold previously at 2d. to 4d. per lb. The markets had very largely increased, and gradually the price had risen until last year it reached 6s. 9d. per lb. The Government had first put a tax of 1s. 6d. per lb. on buchu gathered on Crown lands; the next year it was increased to 2s. 6d., and during the present fiscal year it had been further increased to 3s., which Mr. Woodhead considered to be high. The consequence was that not so much is being exported, the figures being as follows: In 1912, 223,000 lb. of a value of 38,000l., was exported, and in 1913 there was only 163,000 lb., of a value of 32,000l. Mr. Woodhead believed that when the figures for 1914 are published it will be found that there is again a very large shrinkage. His firm had had several letters from dealers in buchu districts, and they stated that now they had to pay a tax of 3s. per lb. it is not worth picking the leaf. The collection of it costs at least 6d. per lb. The price of buchu stands at about 4s. per lb., and there is no likelihood of advancing. The United States of America buys the large quantity of it, but recently there had been a diminished export to that country, because the moment the price of buchu rose above 4s. per lb. they used a substitute. In the interest of the Cape Province, he pleaded that the tax be reduced to 2s. per lb. Mr. J. D. Cartwright, M.P.C. seconded the motion. On the suggestion of the Administrator (Sir Frederic De Waal), it was agreed that the words "Union Government" be inserted in the motion in place of "Forest Department." The Administrator stated that the buchu area in the Cedarberg is divided into four areas, and they are thrown open alternately in order that the plant might recuperate. There are other buchu areas, but most is found in the Western Conservancy. In the period 1903 to 1908 the Government only charged 1d. per lb. and the amount collected was about 400 lb.; in 1909 the tax was raised to 2d.; in 1910 to 3d.; in 1911 to 6d.; in 1912 to 1s. 6d.; in 1913 to 2s. 6d.; and in 1914 to 3s. per lb. The tax collected in the Western Conservancy up to 1912 was between 300l. and 400l. a year. When the tax became 1s. 6d. 2,933l. was the amount raised, the same a 2s. 6d., and last year, when the rate for picking was 3s., only 1,268l. was raised. He thought that 3s. is very high and that at 4s. per lb. it is very hard that three-fourths should be taken away and only one-fourth left to the unfortunate buchu-picker. The motion was carried.

Norwegian Cod-liver Oil.

In a note on Norwegian cod-liver oil appearing in "The Lancet" of May 23, reference is made to the report of the researches of Dr. Johan Hjort, Director of Fisheries, in the course of which it is stated that considerable light has been thrown on the migrations of the cod and on its rate of growth. "In 1913 2,400 cod were caught, marked, and put back. Of these, 279 were caught again in the same season, a result which shows that the drain on the supply must be heavy. A cod which was marked on March 17, 1913, at Henningsvaer, was caught again on February 12, 1914, at Sörvaag. This shows that the cod returns to the Lofoten banks year by year, and incidentally, that the method of marking adopted stands the test of time. The rate of growth of the cod is shown by the increase in length from 8.7 to 19.5 cm. observed in the case of a cod caught on May 26, 1913, and again on February 13, 1914. It was also found that cod had travelled as many as 1,700 kilometres during the few months which had elapsed between the marking and the second catch." We have previously called attention to similar records of Dr. Hjort's researches, but the above dates are more recent.

Java Cinchona.

The first annual meeting of the Boemi Kasso Cinchona Cultivation Co., Ltd., was held on April 16. From the report on the year's working it appears that 144,254 kilos of bark was harvested and disposed of, partly in Amsterdam and partly to the Bandoeng factory. The crop was obtained by thinning and pruning an area of 2½ bouws on the estate. The company has contracted to deliver bark equivalent to 8,000 kilos of quinine sulphate in each of the first three years of the working of the contract between planters and

quinine-makers—viz., from July 1 to June 30 of 1913 14, 1914-15, and 1915-16. Up to December 31, 1913, 3,575 kilos. of quinine sulphate had been delivered in Amsterdam, and since then 1,000 kilos. has been sent to Bandoeng: the remainder will be delivered in Amsterdam before June 30 next. The gross profits of the company in 1913 amounted to 59,913 florins and the net profits to 33,328 florins. From this 9,630n was written off for buildings and 771fl. carried to reserve, leaving enough to pay a dividend of 8 per cent. on the capital of 250,000fl.

Anatolian Otto of Rose.

As a result of the war in the Balkan States, the bulk of the production of Anatolian otto, which in former years was sold to Bulgarian exporters and exported thence as Bulgarian otto, now finds its way to Smyrna, from which it is shipped to Europe. The production, however, is quite small, probably between 300 and 400 kilos. The district of Isbarta (Sparta, Asia Minor) is the principal source, and it is said that the farmers are still ignorant of the methods of adulterating the oil, and that the oil supplied by them is quite pure. There is always a stock of Anatolian otto kept in London by dealers, who are convinced that it is equal to the finest Bulgarian otto.

The Growth of Linseed-oil Output.

In the famine years 1910 and 1911 the home output of linseed oil averaged about 80,000 tons per annum, and the basis spot price in London fluctuated between 31l. 10s. and 51l. 10s. per ton, the average in these two years being 38l. 5s. 6d. and 42l. 14s. 6d. respectively. The market was again very stringent during the first half of 1912, the value touching 47l., and although the home output in that year managed to reach only 85,764 tons, the price came down with a run later in the year to 25l. 5s. in anticipation of an enormous increase in the make, which, indeed, for 1913 reached about 202,000 tons. The increase in the world's shipments of linseed for 1913 against 1912 amounted to about 722,000 tons, of which an excess of about 450,000 tons was absorbed by this country, making allowance for the re-exports. In 1904 the home make was 168,500 tons, or about 34,000 tons less than last year, and the price dropped to 13l. 15s. per ton, the lowest ever recorded in the history of the industry, whereas last year it was not allowed to depreciate below 22l., and the year's average was 24l. 15s., or 8l. 5s. per ton higher than in 1904, although the output of Continental crushers showed an increase of about 124,000 tons, or 7,000 tons more than in the United Kingdom. This maintenance of the price at a pretty high level, in spite of an unprecedented huge increase of production, has been a very striking feature, which is largely the result of the big additional outlet secured for the product through the hardening process chiefly in connection with soap-making. For the first four months of this year the home output of oil amounted to about 55,500 tons, or 11,500 tons more than for the corresponding period last year, but this surplus is rather misleading, as the latter has not been taken up by trade houses, but has been lodged in public warehouses, as may be gathered from the rapid swelling of the London stocks, which have now actually reached 10,000 tons. This, coupled with the Paris stocks, which have grown at a similar rate, represents a total of well over 20,000 tons, against practically *nil* a year ago. There is no overlooking the fact that the article now commands a much wider use than in the past, and for this reason the much larger quantities now held in reserve are not of a particularly threatening character. The recent low range of values, not experienced for about four years, indeed, has done much to stimulate general consumption. There are as yet no signs of any considerable portion of the huge oil reserves now in existence being pressed for sale. For one thing, Continental oil exports to this side have in the last few years undergone a considerable contraction, the figures of imports from the Continent for the first four months of this year being only 3,176 tons, showing a decrease of about 5,800 tons against 1913 and 9,800 tons against 1912.

THE FIRST MEDICINAL HERB-MARKET held in Europe was opened on March 24 at Wangs in the Swiss Canton of St. Gallen. A large number of hand-barrows and children's cars, fully laden with sacks of herbs, were collected together in the School House Square, and near them stood men, women, and children as sellers. Father Künzle, to whose initiative and efforts the establishment of this market is due, was present, and helped considerably in finding out for the buyers the particular kinds of herbs they wanted. There was (we learn from a German contemporary) a most magnificent assortment, and apothecaries and druggists from all parts of Switzerland sent their buyers; consequently the market proved most successful. The next one will be held in October.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

More Thanks.

SIR,—I shall feel indebted to you if you will kindly allow me to thank those 1,823 members of the Pharmaceutical Society who voted for me at the Council election. Though I failed to obtain a seat on the Council this time, I am hoping to do so next. I believe that "it is better to have stood and lost than never to have stood at all," but better still to stand again. I am not one of those who have "risen from the ranks," I am still there, and wish to represent the hard-working pharmacist, who is by no means adequately paid for his services to the public. Yours faithfully,

CHARLES W. BRUMWELL.

"Aqua" and Discounted Bills.

SIR,—It would be an immense help to stopping discounting if the chemists would cease to charge for distilled water while using tap-water. Last summer I had four locum berths in four counties, and this was the prevailing custom in the whole lot. All that is wanted apart from this is a pooling of the drug funds.—Yours, etc.,

DISPENSER. (242/54.)

SIR,—In connection with the Birmingham Insurance Committee's instruction as to "aqua" (*C. & D.*, May 30, p. 61), I feel that chemists are on the eve of a great fight, and it behoves them to act in concert or they will be beaten in the encounter. If all chemists on the panel will only act together and refuse to be dictated to by the doctors they will gain their point. It is not a question of saving a few pounds sterling on the drug bills so much as a question of purity and principle. Many chemists have done the same as myself: gone to the trouble and expense of setting up a still for the specific purpose of always having freshly distilled water for Insurance dispensing. Presumably this is to count for naught, simply to save the doctors the trouble of writing "aqua font." on the prescription if they wish ordinary tap-water to be used. Another point the doctors seem to have overlooked is the agreement signed by chemists on the one hand, and by the Insurance Committees on the other, in which the charges which the chemist can legally make are fixed by the Tariff, and in which distilled water figures. It is to be hoped the chemists of Birmingham and of other towns in which similar propositions have been made will stand firm and insist upon their just demands.—Yours sincerely,

Saltley.

JAMES AUSTIN.

The Insurance Dispensing Crisis.

SIR,—I read with interest the latter portion of your leading article "Insurance Dispensing Crisis"—that the Insurance Committees will early be able to have a complete audit of 1913 accounts. From this we shall know the exact amount which will be available towards the settling of those accounts. I very much doubt if it is over 5 per cent. on the amount of that which we have already been paid. Then comes the remaining deficit, which in some areas will amount to no less than 30 per cent. How are we to get this? In the first place, there is the surcharging of the doctors, which has been done in Salford, at a cost of 70l. hard cash, with what

result?—that Clause 46, taken on an average basis, is a farce. It has been said in the "House" that a medical man cannot be surcharged on the average basis, but only on specific instances of excessive prescribing or careless ordering of drugs, and such cases are difficult to find. Yet what are the areas which have a deficiency doing? They are going on the same lines as Salford—wasting time and money and sowing contention between the medical men and the chemists. Is it any wonder when a medical man has a bill presented to him for nearly 200% (which has occurred) he should say, "How do you expect me to pay this bill when I have not had the goods? The insured have had them. Why should I pay?" I don't blame the doctor for not paying. I contend that the Commissioners are to blame for not giving guidance to the medical men and the chemists, who have been left to fight their own battles, with the result of many cross-charges. These on the whole have brought them closer together and more in sympathy with each other. I look forward to the time when we shall join hands and approach the Government for a higher drug-allowance, which at present is less than $\frac{1}{2}d.$ a week per insured person. Now, with regard to the deficiency of our accounts, what hope have we of getting this? The majority of your correspondents have either overlooked the fact that they have signed a contract or they are endeavouring to hide that fact. I know that if I sign a contract and lose by it I cannot as a business act send an account of my loss to the party with whom I contracted. Is this a legal contract which we have signed? If so, then the only hope of getting any of the deficit is by an act of grace on the part of the Commissioners. Now is the time for the Standing Committee to take steps and see what our position is: they have sufficient data on which to make a move. All this talk of trade unionism cannot help us in Insurance matters, for the Standing Committee are the only recognised body with whom the Commissioners will act, and the onus rests with them to look to our interests; yet how little we hear of them.

Yours truly,

SCRIPT. (242/59.)

Bellier's Test for Arachis Oil.

SIR,—As all pharmacists are interested in obtaining genuine olive oil it may not be out of place to point out that occasionally a genuine oil gives an apparent positive reaction for arachis when tested by Bellier's method. A sample of genuine olive oil recently examined by this test gave a considerable precipitate resembling the crystalline deposit one expects to find when arachis oil is present, but the same sample submitted to Renard's test exhibited no signs of this impurity. This experience is not new, and has been recorded before; but the fact that this is an actual possibility might easily be overlooked, and as it is the first time that it has occurred in my own experience I have thought it worth recording lest it might be lost sight of. Bellier's test has much in its favour for commercial purposes owing to the readiness with which it can be applied and the saving of time effected; but it would seem that when it yields a positive result it should be confirmed by the method of Renard, which, though somewhat tedious, is generally conceded to be very reliable.

Yours faithfully,

Camberwell Grove,

A. E. BELL.

Conference Country.

SIR,—Mr. Cecil Owen's delightful article on Llangollen will interest those who cannot, as well as those who can, join the excursion to what the "Burns of Wales" (who, by the way, was born in the Glyn Ceiriog) calls "the dim, violet valley" in which the town lies, but I am grieved to hear one with a Welsh name speak of the Dee as rising in Bala lake. I thought it was an article in every pious Welshman's creed that the "wizard stream" rises beyond the lake and flows through it without any blending of the waters. And have I not tracked it to its source, or one of its sources, on Aran Benllyn? The poet Spenser places its source on "Rauran," apparently confusing the mountain just named with Yr Aran. I do not

know why the little stream I speak of, rather than one of the two bigger ones, the Lliw and the Twreh, should be called the Dyfrdwy, but so it is. And I greatly fear Mr. Owen is not a poet, or he would not attribute the poor lines Englished from a German paraphrase for Haydn's libretto, in which only two words of our "mighty-mouthed inventor of harmonies" are retained, to Milton, or spend ink on that wretched barber whose act has virtually robbed Moel Geraint of its true name, yet omit to mention Nest of Plas Eglwyseg (the Welsh Helen) and Myfanwy of Caer Dinas Brân. But I thank him for reviving many memories of these lovely scenes and their legends.

Yours, etc.,

C. C. BELL.

Bookkeeping for Chemists.

SIR,—In reply to "Xrayer II.'s" reflections, I will venture to point out to him that I have never suggested that the Pharmaceutical Society should teach bookkeeping to chemists. I advocate that students should be required to show an elementary knowledge of the subject. "Xrayer II." uses the "argumentum ad absurdum"; I will use the "a fortiori" argument. The Pharmaceutical Society does not teach algebra and geometry, yet it requires a student to pass an examination in those subjects, even though they cannot be considered peculiar to pharmacy. While knowledge is always more or less useful, one cannot consider algebra and geometry essential to the business of a chemist. How much more, then, should it be necessary for a chemist to have a knowledge of bookkeeping which is a matter of vital importance if he is to succeed? I maintain that if a chemist is to be superior in education to other tradesmen, his education should be superior all round, and not in scientific subjects only. As to Mr. Jerome's facetious remark about being born in Germany and being brought up by the police, though I yield to no one in patriotism, I think the average educated German reflects, if that be the case, great credit on their police! It was to Germany we went for lessons in National Health Insurance, and they are by no means behind us as chemists, as proved by a glance at the various synthetic and other remedies on our shelves.

Yours faithfully,

CHARLES W. BRUMWELL.

Are Associations a Failure?

SIR,—At the onset, please let me make my meaning quite clear. After two years' work as hon. secretary of a chemists' local Association, I have at last come to the conclusion that I must be at fault for the apathy which exists in our pharmaceutical corner. Can you, Sir, or any other hon. secretary, help me with ideas and experiences by which I may profit, and so make our organisation other than a paper one?

Combination and organisation have been preached from every possible platform as being the salvation of the chemist. I do not think I ever fully appreciated the up-hill fight of the Pharmaceutical Society until I took just one little bit in hand myself, in organising and keeping together men whose interests are identical. When we first started, the Association started with a rush; everyone worked according to his power, and meetings were fully attended. We were quoted in several parts of the country as an example of what could be done when men, tinged with enthusiasm, were pulling together. Alas! our very success seems to have killed us, and the members of the Association, except for a few stalwarts, are resting on their oars and saying, "What fine fellows we all are!" Insurance matters have gone fairly well with us, and members have little to grumble about on that score. Everybody has been paid in full, and we have a sympathetic ear when approaching the Insurance Committee. But this point has not been reached without fighting on the part of our executive, and a stiff back has been necessary more than once. And at this point our members fail us. Their Insurance cheques reach them with punctuality, and this seems the Omega of their ideas. "Alpha" has no place in their vocabulary, and instead of seeing in the present successful issue an object-lesson of the value of organisation, an apathy exists which is most discouraging to a secretary.

Can anyone help me?

Did I but write my members that there would be a chance of their bills being discounted, I have little hesitation in saying that the meetings would be fully attended once again. Surely this is a condition of things that should not exist. Insurance matters are not the "all" of pharmacy, and the knowledge gained by attacking Insurance problems should "make for good" in bettering the pharmacist's position. What do chemists want to get them out of the rut? If we have a dinner, beyond the few real supporters of the Association what do we find on examining the list of people present?

I am sorry (in one sense) that the average of 75 per cent. of wholesale representatives to 25 per cent. of our own men is the result. We try a whist-drive, and members are outnumbered by friends who have no more claim to the name of chemist than that they know someone who knows someone else who knows a chemist. Lectures, lantern and otherwise, have been brought to bear upon the attendance with dismal failure. Concerts have also been tried, and the result has not been flattering to the singers or organisers. It looks as if the Association will fizzle out unless some means can be suggested to awake the interest of our members once more. Perhaps it is that to-day being Bank Holiday, and the fact that I am on duty while many thousands are passing my door pleasure-seeking, accounts for my outburst, or it may be that my liver is not working. I do hope, however, some good will accrue from my abuse, for, having worked so far for the Association, I do not like to see it die from lack of interest brought about through its early success.

Yours truly,

HON. SECRETARY. (243/30.)

Apothecaries' Hall (Ireland) Preliminary Examination.

SIR,—In your issue of March 14, p. 104, the following note was printed:

APOTHECARIES' HALL OF IRELAND.

At the last meeting of the Governors arrangements were perfected whereby qualified chemists (British and Irish) are to be admitted to a modified Preliminary examination for a limited period. Intending candidates should give the Secretary particulars as to whether they have passed in a modern language as well as of the number of years they have been qualified, when the Board will decide the requirements in each case.

Before parting with my three guineas for this Preliminary I started to make inquiries, and find that the whole Preliminary examination of Apothecaries' Hall, much less this limited Preliminary, is not accepted by the Medical Council (Ireland). As you will see from enclosed abstract of regulations, no course of medical study is recognised unless registered within fifteen days after commencement of medical studies.

Yours faithfully,

PRO BONO PUBLICO. (229/16.)

[Our correspondent encloses the official abstract, which states that the recognised Preliminary examinations held in Ireland are: Examinations of the Intermediate Education Board of Ireland—Middle (with Honours in three subjects) and Senior Grades; Conjoint Examination in Arts of the Royal Colleges of Physicians and Surgeons of Ireland; Queen's University of Belfast, Matriculation examination; National University of Ireland, Matriculation examination; and certain examinations of the University of Dublin, which are specified. We may add that it is well known that the General Medical Council disapproved of the Hall reviving its Preliminary examination five years ago, and the President of the Council then remarked, "This examination is purely a domestic one, and need not be recognised by any of the licensing bodies or by the Council." The matter is still in dispute. The Hall, like the Royal Colleges in England, ignores the Council in certain matters, and is within its rights in granting its licence to those who conform to the approved medical curriculum, of which the Preliminary examination is not strictly a part.—EDITOR C. & D.]

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Appreciation.

"The C. & D. has become a welcome friend, and I eagerly look forward to its arrival."—(239/3.)

For Chemists whose Daughters are Nurses.

"I should be greatly obliged to any brother pharmacist for information where my daughter could obtain the best possible training in nursing. She wishes to train for two or three years in a hospital for women and children before entering a 'general,' but cannot decide which one out of the many would be most suitable. For any help in this matter I should be thankful." Q. (233/37).

Dispensing of Proprietarys.

"An Insurance doctor orders 8 oz. hyno-hypophosphites in 5j. doses. I am obliged to take from a 10-oz. stock. Have I to lose the remaining and probably useless 2 oz.? It seems to me a great hardship that we cannot exercise our discretion and supply the full size supplied by the makers. One cannot help feeling discontented with a system that allows such injustice to struggling chemists."—Dis-satisfied (240/74).

[As panel doctors are local, a courteous observation to the prescriber about the matter should obviate repetition of the loss.—EDITOR C. & D.]

Jay Macskims

(as he writes them).

Last week's Insurance remedies are good, but I can go further:

- (1) Check over-prescribing first.
 - (2) Stock mixtures will save 30,000%.
 - (3) Stop waste on malt and oil. 12-oz. liniments, and recipes like 1 gal. liq. paraff. alb., will save 10,000%.
 - (4) Stop five-day bottles being "wolfed" in two days, will save 10,000%.
 - (5) Then pool the funds.
- But even that won't meet the case of bad trade when it comes, bringing extra malingering, so that we may have to get
- (6) Simple ailments barred, same as better-class insurance.
 - (7) Invalidity pensions for worn-out workers at any age (as in Australia) will empty the surgeries of "chronics" and leave time and money for needy cases.

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Hygroscopic Powders.

SIR,—I should be obliged if you could account for the following powders becoming damp after a few days. We dried the sod. bicarb. and dispensed them in damp-proof paper, but had them returned to us to-day:

Hyd. c. creta	...	...	gr. j.
Sacch. alb.	...	...	...
Sod. bicarb.	...	...	aa. gr. ss.

Ft. pulv. Mitte 1 gross.

Yours truly,

J. E. F. (225/2.)

[The composition of the powders would not lead us to anticipate any trouble relative to dampness. On trial we have not succeeded in getting the powders to show signs of dampness such as you complain of. We can only suggest that the sugar may contain a trace of hygroscopic substance, which has caused it to retain an unusual proportion of moisture. Quite a good procedure in such a case is to powder some cane-sugar—"Glebe," for example—and sift it through muslin. Our experience indicates that pure cane-sugar yields a drier powder than a sugar wholly or partly derived from beet.]

Stearin in Suppositories.

SIR,—Will you inform me how the following prescription for suppositories should be dispensed? I have referred to the "Art of Dispensing," and can only find it mentioned that stearin and oleic acid have been suggested as a base. Made on these lines they turned out a failure:

Chloral. hydrat.	...	...	gr. ij.
Ext. belladonnæ	...	...	gr. ½
Stearin	...	...	q.s. ut fiat suppos.

Mitte tales 24.

Yours faithfully,

BASIC. (226/69.)

[Ordinary stearin—i.e., stearic acid—is too high in melting-point to be serviceable for suppositories; and with such a combination as this prescription orders it would be practically impossible to make presentable suppositories. Owing to the temperature at which they require to be poured being so high, the extract of belladonna clots and is not evenly distributed. Coconut stearin, however,

which possesses even a lower melting-point (about 85° to 88° F.) than theobroma oil, is occasionally employed for the purpose. It is quite suitable, and probably the prescriber had it in mind when writing the prescription. You will find this stearin mentioned in the "Art of Dispensing," p. 192.]

Insurance Dispensing Queries.

TUBERCULIN.—*Phenactin* (239/7).—Although this is charged to Sanatorium Benefit, Tariff terms are usually applied in pricing—i.e., one-third is added to cost, with a dispensing-fee of 2d. for each container.

Surrey (243/40).—It is necessary for an insured person who is temporarily resident in a district to get from his or her Insurance Committee a voucher that will enable the chemist to dispense and receive payment from the Committee for the medicine dispensed. You should instruct the insured person to see to this at once.

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 459-499.

Country Chemist (244/17).—You are liable in accordance with the terms of the contract which you signed. Follow your solicitor's advice in the matter.

E. T. A. (244/26).—Food and drugs inspectors must give vendors a third part of any article purchased for analysis, and have no legal right to require the vendor to return the sample, which is the property of the vendor.

Midlands (117/8).—We have repeatedly stated that annual holidays to employes are conditional, as a rule, upon continued service, and employes who give notice in the course of the year are not entitled to a *pro rata* holiday.

Ecceles (240/51).—The Fertilisers and Feeding-stuffs Act, 1906, applies to all fertilisers, whether for horticultural or agricultural use. It contains no exemption from its requirements in favour of the sale of small quantities—e.g., sixpennyworth—or when the matter is compressed into tablets, which are just as much subject to the invoicing requirements as a wagonload. The Board of Agriculture have in the past given consent to proceedings under the Act where the sale has been of only a small quantity of a fertiliser. The conditions as to invoicing are on p. 462 of the *C. & D. Diary*.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Antiquarian (27/5).—OLD PHARMACY-POT LABELS.—*Ung. Tutia* on the first of the two pots was official for the last time in the London Pharmacopœia, 1788. Nicolaus de Salerno is supposed to have invented the ointment. He lived in the sixteenth century, and his formula is given in the Pharmacopœia Augustana published in 1601. It contained other ingredients than tutty, but became simplified, until in P.L. 1788 the ointment consisted of prepared tutty with sufficient *lin. ceræ albæ* "ut fiat unguentum molle." In 1728 Quincey stated that the ointment "is not very often referred to in prescriptions, but is in great esteem among the common people." The tutty powder was an impure zinc oxide, and it is rather curious to note that in the P.L. 1809 *ung. zinci* was first introduced, and until the popularisation of *ung. acidi borici* was the most largely used household ointment of the nineteenth century. The label on the second pot to which you refer is *Ung. Arcæi*. This was invented by a Spaniard named Arcæus, who practised in Amsterdam in 1574. It was called "linimentum Arcæi" in the P.L. 1720, after which date, until 1898, it was known as *ung. elemi*. The ointment was first devised for healing wounds, and originally contained elemi and turpentine of each 6 parts, stag's suet 6 parts, and oil of

St. John's wort 2 parts. The simplest formula is the one which appeared in the B.P. 1885, where it was last official in this country.

Cress (235/48).—MIDGE-LOTIONS.—See *C. & D.*, May 31, 1913, index folio 848; June 14, 1923, index folio 922; and June 28, 1913, index folio 957.

Interested (103/37).—OPHTHALMIA NEONATORUM is a form of purulent inflammation of the conjunctiva of the eye which affects newly-born infants owing to infection by discharges from the sexual organs of the mother. It is the cause of a great proportion of the blindness which afflicts the human race, hence the importance of early notification and prompt treatment. Prophylaxis is compulsory in some countries.

A. E. F. (231/24).—It would require an investigation on the spot to arrive at the cause of the red stains which appear on woollen goods after they have been washed. The most probable explanation is the use of iron vessels at some stage of the laundry operations or of wire clothes-lines. Potassium permanganate also causes similar stains to those about which your customer complains.

Radix (235/23).—MONOHYDRATED SODIUM CARBONATE is a crystalline salt, but unlike the variety sold for photographic purposes, which has ten molecules of water, it has only one molecule of water. It is sold in this country as the "Crescent" brand sodium carbonate in the form of silky crystals. This salt is used in enormous quantities in the preparation of bath-salts, water-softeners, and the stearin type of skin-cream. Exsiccated sodium carbonate of the British Pharmacopœia, being nearly free from water, can be used in place of the monohydrate if the last-named is not readily obtainable.

Edina (243/19) has a customer who suffers from ECZEMA OF THE SCROTUM. The patient has tried advertised ointments, and a skin-specialist prescribed an ointment with *ac. pyrogall.*, etc., but with little or no benefit. The following lotion should be painted on once a day:

Calaminæ præp. ...	...	...	3iij.
Zinci oxid. ...	...	...	5ij.
Acid. borici. ...	...	...	5j.
Glycerin. ...	...	...	5ss.
Aq. ad ...	...	...	5iv.

If there is much itching a little *ung. cocain.* may be rubbed on. A warm bath should be taken twice a week after all oozing has ceased.

Ignoramus (242/10).—You may address the Secretary of the National Health Insurance Commissioners, Buckingham Gate, London, S.W., in regard to situations on the clerical or other staff, but they have no particular use for clerks with knowledge of the retail drug-trade.

J. L. G. (243/18).—Many farriers use our "Veterinary Counter-practice." It is freer from archaic methods of treatment than popular books on veterinary medicine.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1864.

Proposed Legislation Affecting Chemists and Druggists.

The Twenty-third Anniversary Meeting of the Pharmaceutical Society has been held since the publication of our last number, and we learn from the report given in the *Journal* that some of the leading pharmacæutists look with little favour upon the scheme of legislation proposed by their Council. . . . Mr. Reynolds, a member of the Council, brought forward the following resolutions, that had been agreed to by the pharmaceutical chemists of Leeds:

1. That the proposals of the Pharmacy Bill to restrict the use of the terms "chemist" and "druggist," and to prevent the keeping open shop for the dispensing prescriptions by other than registered persons, are attended by so many difficulties that they are not feasible. This meeting would consider it preferable to take as the basis of legislation an enactment confining the sale of certain powerful poisons to persons registered as being qualified for such a trust. It also considers that an annual subscription should be substituted for the single registration-fee proposed by the Bill.

2. That the clause of "chemist and druggists" proposed to be registered under the Bill is entitled, upon every principle of justice, to self-representation in the body by which it would be governed, and also to exemption from serving on juries. This meeting regrets that the Bill does not admit these rights.

3. That for the reasons above set forth, and because believing that the Bill will not be generally acceptable, either to the members of the Pharmaceutical Society or to chemists and druggists, this meeting would urge upon the Council its reconsideration.

The original motion, that the Bill be received and adopted, was carried unanimously.

GUARANTEED (LIKE "CONDY'S FLUID") NOT TO CONTAIN PERMANGANATE OF POTASH (poison).

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INDICATIONS—

Muscular and Articular Rheumatism, Polyarthrititis, Neuritis, Sciatica, Gout, Lumbago, Influenza and all Feverish Conditions, Colds, Catarrhs, Headaches, Neuralgia.

PROMPT AND DEFINITE IN ACTION.

NO UNPLEASANT BY-EFFECTS.

HYDROPYRIN and **KALMOPYRIN** are powerful antipyretics, analgesics, anti-rheumatics, and anti-neuralgics. Both occur as white, non-hygroscopic, stable, and practically tasteless powders. Both are readily and freely soluble in water, and are therefore adapted to many forms of dispensing, and to all manufacturing processes.

HYDROPYRIN is also soluble in alcohol, and may therefore be dispensed in tinctures and other alcoholic extracts.

HYDROPYRIN and **KALMOPYRIN** are put up for dispensing in 1-oz., 8-oz., and 16-oz. bottles, and are also supplied to manufacturers and other large users in bulk at special prices.

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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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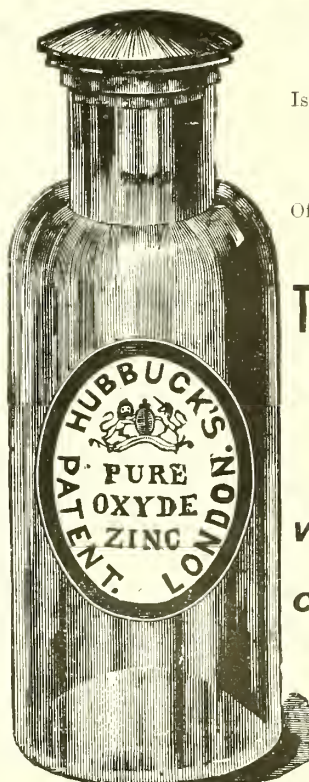
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Clay, Dod & Co.
Cockburn & Co. (Lim.)
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Horner & Sons.
Huskisson, H. O., & Co.
Hunan's Stores (of Edinburgh).
Ismay, John, & Sons
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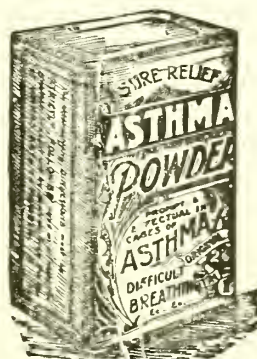
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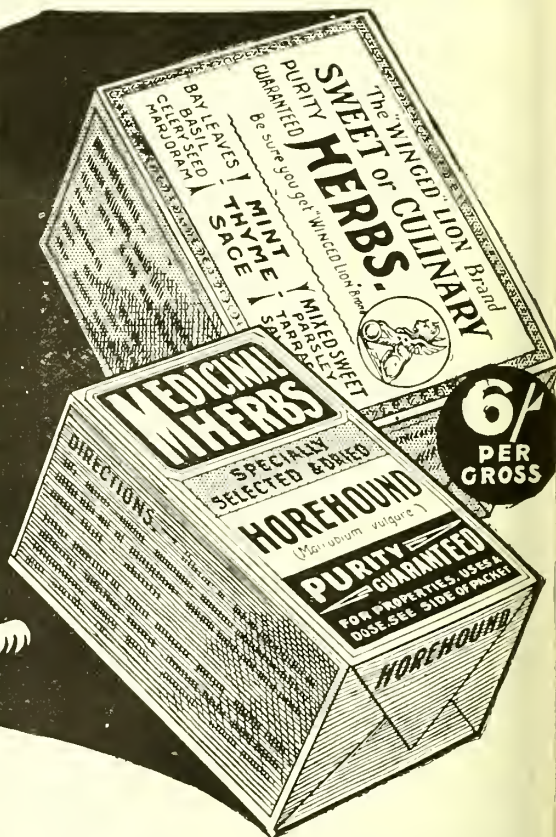
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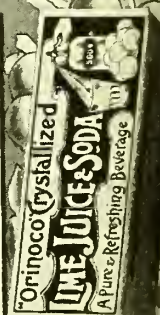


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- A**acet. Ipecac. B.P., 7 lbs. @ 1/5 lb.
 *Acid. Aret. Glacial, 99%, Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 7d. lb.; 6 lbs. @ 8d. lb.
 Acid Acetyllo-Salicyl., 1 cwt. @ 1/10½ lb.; 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
 " Carb. Xils., 39/40; 56 lbs. @ 5d. lb.; 10 lb. Tins @ 6/- each; 36 1-lb. Bots. @ 9½d. lb.; Single Bots. @ 1/- lb.; Detached Cryst. 10 lb. Tins @ 8/- each; 1 lb. @ 1/2 lb.; Crude Black, 45 gall. casks @ 1/- gall.; 5 gall. drums @ 1/4 gall.; 1 gall. tins @ 1/6 each.
 " Salicyl. pulv. 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 2/11 lb.
 " Tart., cryst. or pulv., B.P., 1835, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. ½d. lb. extra.
 Aloes Barb., English ground, 28 lbs. @ 84/- cwt.; 7 lbs. @ 10d. lb.
 Ammon. Brom., P.B., 7 lbs. @ 2/3½ lb.
 Ammon. Carb. lump, 3 cwt. @ 4d. lb.; 28 lbs. @ 5½d. lb.; 7 lbs. @ 5½d. lb.; powder, ½d. lb. extra.
 Amyli Fulv. 10 cwt. @ 11/6 cwt.; 2½ cwt. @ 13/- cwt.; 1 cwt. @ 15/- cwt.
 *Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.
 " Aurant. Trip., 53 lbs. for 17/6; 6 lbs. @ 7d. lb.
 " Aurant. Conc., 1-40, 1 lb. @ 6/1 lb.
 " Rosæ Trip., 53 lbs. for 22/6; 6 lbs. @ 7d. lb.
 " Rosæ Conc. 1-40, 1 lb. @ 7/- lb.
 " Samb. Trip., 53 lbs. for 23/6; 6 lbs. @ 8d. lb.
 " Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.
- G**lycerin. Opt. D.D., 1,260 P.B., 1 cwt. @ 100/- cwt.; 56 lbs. @ 101/- cwt.; 12 lbs. @ 1/1 lb.
- H**ydargyrum, P.B., 75-lb. bottle @ £72/6; 10 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.; Ammon., 28 lbs. @ 3/1 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid. Rub., 28 lbs. @ 3/1 lb.; Perchlor. Lump. 28 lbs. @ 2/4½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/6 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities 3d. lb. extra.
- I**chthylol Ammon. 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent: Ammon. Ichthosulphonas, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
- I**nf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
 " Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
 " Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
 " Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
 " Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
 " Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
 " Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
 " Gentianæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.
 " Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.
 " Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
 " Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
 " Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
 " Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
 Insect Powder, Opt., English Grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.
- L**in. Camph. P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ 1/- lb.
- Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb. Pix. Burgund., Druggists', 1½ cwt. @ 25 6 cwt.; 7 lbs. @ 4½d. lb.
 Potas. Acetas. Gran. P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
 Potass. Brom. P.B., 1 cwt. @ 1/7½ lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
 Potass. Cit., B.P., 7 lbs. @ 2/7 lb.
 Potass. Permang., Cryst., 1 cwt. @ 40/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.
- R**ad. Ipecac. Rio., 7 lbs. @ 9/3; 1 lb. @ 9 6.
 Rad. Jalap., English Ground, 28 lbs. @ 13½ lb.; 7 lbs. @ 1/4½ lb.
 Rad. Rhei., E.I. English Ground, 1 cwt. @ 1 3 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.
- S**affron, Valencia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 45/- lb.; 1 oz. @ 3/3 oz.
 Salicinum, B.P., 1 lb. @ 16/6 lb.
 Salol, B.P., 7 lbs. @ 1/11½ lb.; 1 lb. @ 2 3 lb.
 Santonium, P.B., 7 lbs. @ 116/6 lb.; 1 lb. @ 119/- lb.
 Sapo Cast. Alb., 10 cwt. @ 28/6 cwt.; 2 cwt. @ 30/- cwt.; 7 lbs. @ 4d.; pulv., 1 cwt. @ 65/- cwt.; 56 lbs. @ 63/- cwt.; 7 lbs. @ 8d. lb.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lb.
 Soda Cit., B.P., 3 lbs. @ 3/0½ lb.
 Sodii Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur. 28 lbs. @ 2/1 lb.; 1 lb. @ 2/4 lb.
 Sodii Bromid., P.B., 7 lbs. @ 2/1½ lb.
 Strychnina cryst. B.P., 25 ozs. @ 1/7½ oz.; 1 oz. @ 2 3 oz.; Hydrochlor. and Sulphate, 2d. oz. less.
- *Syr. Aurant. P.B., 7 lbs. @ 9½d. lb.
 " Easton, B.P., 7 lbs. @ 1/0½ lb.
 " Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.

BISMUTH.

- B**acc. Juniper, 28 lbs. @ 22/-; 7 lbs. @ 3d. lb.
 Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.
- C**alcii Carb. Præcip., 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. @ 21/- cwt.
 Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb., ½ oz., or ¼ oz. 7 lbs. @ 2/- lb.
 Cetaceum, No. 1, fine white, 64 lbs. @ 11½d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.
 Cocaine Hydrochlor., B.P., 25 cts. @ 4/2 oz.; 4 ozs. @ 4/8 oz.; 1 oz. @ 5/6 oz.
 Cream Tartar, 98% powder, 1 cwt. @ 101/- cwt.; 7 lbs. @ 1/0 lb.
 Cubebæ, English Ground, 7 lbs. @ 1/11 lb.

- E**mulsoi Ol. Morrhuæ, 5 lbs. @ 11d. lb.
 *Ess. Pear (artificial), Jargonelle, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.
 *Ess. Pineapple, 5 lbs. @ 3/4 lb. [lb.]
 " Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6
 " Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @ 4/7 lb.
 *Ext. Belladonnæ Liq., B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 4/3 lb.
 Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
 *Ext. Ergot. Liq. P.B., 5 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.

- F**erri Ammon. Cit., P.B., 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/7 lb.
 Ferri et Quinain Cit. P.B., 500 ozs. @ 5½d. oz.; 100 ozs. @ 6d. oz.; 25 ozs. @ 6½d. oz.

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- N**aphthalene, Candles or Balls, 1 cwt. @ 13/6 cwt.; 56 lbs. @ 16/- cwt.; 28 lbs. @ 16/- cwt.

- O**l. Caryoph. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
 Ol. Eucalypt., B.P., 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 9 lbs. @ 1/7 lb.
 Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Liane Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
 Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 4/10 gall.; 2 gall. tins @ 5/9 gall.
 Ol. Origan Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs. @ 2/- lb.
 Opium Turc. B.P., 14 lbs. @ 17/- lb.; 3 lbs. @ 18/- lb.; 1 lb. @ 18/8 lb.; powder, 6d. lb. extra.

- P**apain, 1-80, 1 lb. @ 16/6 lb.; 1 oz. @ 1/4 oz.
 Paraffinum Durum, B.P., 2 cwt. @ 3d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3½d. lb.; 7 lbs. @ 4½d. lb.; Melle Flav., B.P., 3½ cwt. @ 20/- cwt.; 1 cwt. @ 30/6 cwt.; 28 lbs. @ 4d. lb.; 7 lbs. @ 4½d. lb.; Alb. B.P., 3½ cwt. @ 58/- cwt.; 28 lbs. @ 7½d. lb.
 Paraldehyde, B.P., 7 lbs. @ 2/- lb.; 1 lb. @ 2/3 lb.
 Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.
 Phenacetin, P.B., pulv., 1 cwt. @ 2/11 lb.; 7 lbs. @ 3/1 lb.; 1 lb. @ 3/4 lb.
 Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6

- *Syr. Ferri Phosph. Co., 7 lbs. @ 5½d. lb.
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 " Sennæ, P.B., 7 lbs. @ 8½d. lb.
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- T**hymol, 7 lbs. @ 7/8 lb.; 1 lb. @ 8/6 lb.
 Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
 *Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6½d. Aquos, 1/- lb.
 *Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 10d.
 *Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6½d. Aquos, 1/1 lb.
 *Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
 *Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos, 10d. lb.
 *Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
 *Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
 *Tinct. Chlorof. c. Morph., B.P. 1885, 5 lbs. @ 2/- lb.; bond, 1/6½ lb.
 *Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 1/0½ lb. Aquos, 1/4 lb.
 *Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb. Aquos, 1/2 lb.
 *Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb. Aquos, 1/- lb.
 *Tinct. Gelsem. P.B., 5 lbs. @ 2/10 lb.; bond, 6½d. lb. Aquos, 1/3 lb.
 *Tinct. Opil., B.P., 5 lbs. @ 3/4 lb.; bond, 2/6 lb.
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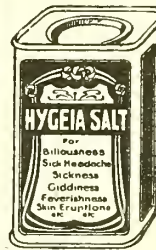
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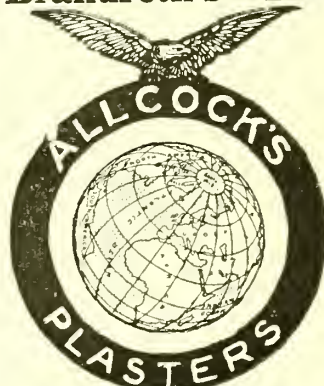
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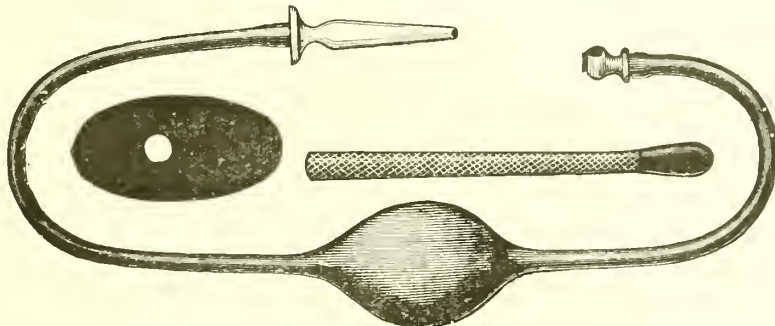
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
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5 % discount allowed for prompt cash off above prices. Carriage paid on orders of **£2** and upwards.

We are the right House for Bandages, Catheters, Enemas, Elastic Hosiery, Hot-Water Bottles, Ice Bags, Injection Syringes, Pessaries, Sponge Bags, Splints, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheetting, and every description of Rubber Goods.

OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

 **PRICE LIST**, containing latest reduced prices for Enemas, Clinical Thermometers, Rubber Air Cushions, etc., post free.

BURGE, WARREN & RIDGLEY, LIMITED,
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

TOOTHACHE CURED AT ONCE

99 $\frac{1}{2}$ % of humanity suffer from that most distressing of all pains, Toothache. An attack of Toothache incapacitates you for your daily labours or your pleasures.

Why Suffer ? when one "GOTAR" Tablet

Placed on your tongue will drive away the pain instantly.

DR. ANDREW WILSON says:—

"The Tooth itself cannot ache, as it is composed of Bone and Enamel, but it is the nerve that enters each tooth that aches when it becomes excited or exposed, as in a decayed tooth."

DR. GOODMAN, the well-known Dentist, writes:—

"I have used and recommended 'Gotar' Tablets thousands of times, and have never known them fail to cure toothache instantly."

THE



EXACT SIZE.

"GOTAR" acts directly upon the dental branches of the palatine nerves, and immediately soothing them, causes the pain to cease. This is the secret of its success.

CHILDREN.—Why let your little ones suffer, as they all do during the shedding of their first teeth and whilst "cutting" their permanent ones, when $\frac{1}{2}$ a Tablet gives **Instant Relief.**

FREE Any sufferer will be provided with a "Gotar" Tablet gratis by calling at the Company's Offices, **62 STRAND, LONDON.**

FREE SAMPLE BOX will be sent for 3d. stamps to cover postage and packing.

PRICES.—12 in case. 9d.; 25, 1 1/2; 100, 2 9/10. From Chemists, or from

GOTAR CO.,
62 STRAND, LONDON.

This is a Specimen of our Advertisements appearing in the

"Daily Mirror,"
"Daily Sketch,"
"Tit-Bits"
(present issue), &c.

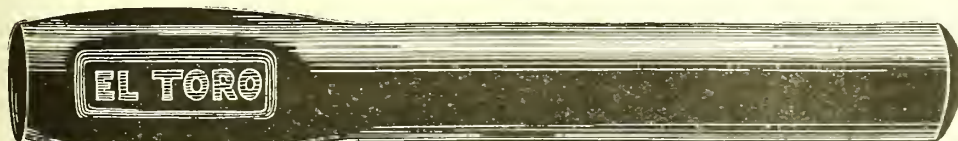
Order at once from
your
Wholesale House,
or

GOTAR Co.
62 Strand, London,
England.

DROGUERIES & HUILERIES ANVERSOISES, LTD.,

LIQUORICE MANUFACTURERS.

ANTWERP, BELGIUM.



Own Plant
for
Liquorice
Extracting
from first-
class roots.

GUARANTEED PURE REFINED EXTRACT OF LIQUORICE.

BRIGHT, SOLUBLE.

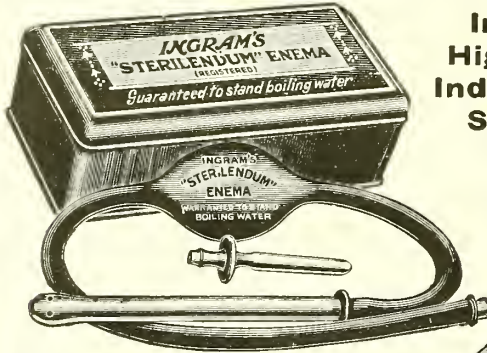
In sticks of 8 and 5 to lb., or according to buyer's convenience. Sticks with buyer's own mark or name if desired; packed in cases of 1 cwt.

Glycyrrhizinate Amon. 70/72-80/82.

LIQUORICE ROOTS in Bundles.

Wholesale only.

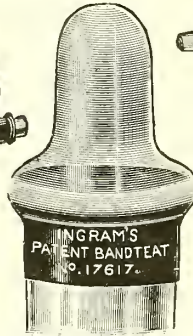
Price Protected Goods that show a legitimate Profit.



The "STERILENDUM" Enema. STERILIZABLE IN ITS ENTIRETY.

Packed in highly enamelled box.
Obtainable from Wholesale Houses.
Price 33/9 per doz.

Ingram's High Grade India-Rubber Surgical Goods.



The "AGRIPPA" Band Teat.

(Patent 17617)
TEATS Price 2/3 per doz.
VALVES " 1/9 "

FREE PUBLICITY
LITERATURE.



The "UTILEMA" Enema. FOR SELF USE.

Packed in attractive labelled card box.
Obtainable from Wholesale Houses.
Price 27/6 per doz.

FREE PUBLICITY
LITERATURE.

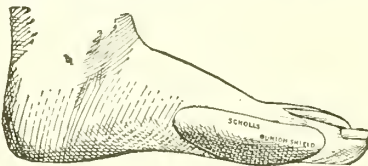
Manufacturers:—J. G. INGRAM & SON, Hackney Wick, London, N.E.

CHEMISTS PLEASE NOTE.

NO EXTRA STOCK.
NO RESPONSIBILITY.
NO TROUBLE.
HANDSOME PROFIT.

Why not add to your income with out trouble and with out extra stock? There must be many among your customers who, known to you, wear an **ARTIFICIAL LIMB** or other **APPLIANCE**. Advise them to come to us. We are makers of the highest class of Limbs and Appliances, and no time or effort is spared to make each case a success. Simply send us a card to say that you have mentioned our name to Mr. or Mrs. —, of —, or send their name and address, and we will forward them a catalogue. In either case, should business result, we credit you with a substantial commission from 10 to 25% according to the nature of instrument supplied, and a cheque is sent on the 1st of the month following. We should be pleased to supply you with catalogues, in English, French, or German, for distribution, and give any information you may require.

J. & E. FERRIS, 33 MUSEUM STREET, NEW OXFORD STREET, LONDON, W.C.



SCHOLL'S BUNION REDUCER, made of pure Para Gum Rubber, gives instant relief by keeping the pressure of the boot from the affected joint. Fits closely to the bunion, shuts out all air, retains the moisture, thus arresting the growth. Can be worn in any boots unnoticed; does not shift or bulge. Made in three sizes, small, medium, and large and for right or left foot. Price 15/- per dozen. Send for free booklet, "Scientific Correction for Ailments of the Feet."

THE SCHOLL MANUFACTURING CO., Ltd.

Largest Makers of Foot Appliances in the World,
1, 2, 3 and 4 GILTSPUR STREET, LONDON, E.C.

VINCENT WOOD'S NEW FAST EDGE "Eureka" Crêpe Velpeau Bandages.

RUBBERLESS,
Porous and
WASHABLE.

Special
discount
for quantities.



SOLE
IMPORTER
for Gt. Britain
and Colonies.

Wholesale
from
all Sundries
Houses.

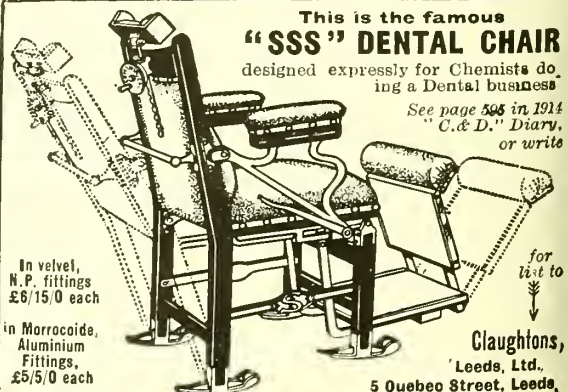
Design & Trade Mark Registered.
THE BANDAGE OF THE FUTURE
in cases of Varicose Veins, Sprains or Abdominal Binding, &c.
NO OTHER will be worn or asked for.

Prices per doz. Bandages, Widths: 2 1/2" 3" 4" 5" 6" 8" 11 1/2"
Best Quality ... 12/- 15/- 18/- 36/- 54/-
2nd ... 9/- 12/- 15/-

Send for Price List of Trusses, Belts, Hot Water Bottles, Elastic
Stockings, Sponge Bags, Bathing Caps, &c.
4 ALBION PLACE, Blackfriars Bridge, LONDON, S.E.

Every Genuine Bandage must have "Eureka" on Wrapper.

Customers can have their own names on Wrappers and Circulars.



This is the famous "SSS" DENTAL CHAIR designed expressly for Chemists do- ing a Dental business

See page 505 in 1914
"C. & D." Diary,
or write

In velvet,
N.P. fittings
£6/15/0 each

In Moroccoide,
Aluminium
Fittings,
£5/5/0 each

for
list to
Claghtons,
Leeds, Ltd.,
5 Quebec Street, Leeds.

The Only WHITE Insect Powder.

POURFLEA

Insecticide, Antiseptic, Non-poisonous

GERMICIDE

For Use on Dogs, Cats, Poultry, etc.

PERFECT PREVENTATIVE against MOTHS or INSECTS
in CARPETS, FURS and ALL CLOTHING.

This Powder is absolutely harmless to the skin
and possesses great healing qualities.

Retailed in Tins, 6d. and 1/-.

Wholesale from Godfrey Shaw, Burgess Hill, Sussex.

INDEX and BUYERS' GUIDE

See pages 5 to 9.

COCKROACHES CLEARED WITH BLATTIS, THE UNION PASTE.

Guaranteed by E. Howarth, F.Z.S., who destroyed

a plague of them at Sheffield Workhouse in 1896.

Supplied by order to the Royal Household at Sandringham.

Recommended by Dr. H. Woodward, F.R.S.; Canon Kinton Jacques, R.D.
Wholesale Agents: F. Newbery & Sons, 27 Charterhouse Square, London, E.C.4;
Evan Sons Lescher & Webb, Ltd., 56 Hanover St., Liverpool; John Thompson,
Ltd., 58 Hanover St., Liverpool; Ayrton, Saunders & Co., Liverpool; Sangers,
42A Hampstead Road, London; May, Roberts & Co., Ltd., 7/11 Clerkenwell Rd.,
London.

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& Sons, Ltd., 29, 30, 31, 32 & 33 Berners St., Oxford St., London, W.1; Boots Ltd.,
London and Manchester.

HOWARTH & FAIR, 471 Crokesmoor Road, Sheffield

"Yes, It's Deadly!"



MINIMUM RETAIL

3d. size ...	2/- doz.	6d. size ...	4/- doz.
4½d. ,, ...	3/- doz.	1/- ,, ...	8/- doz.
3/6 size (1 lb.) ...	28/- doz.		

Evans Sons Lescher & Webb Limited
London & Liverpool

TO WHOLESALE BUYERS

Poison Bottles in ACTINIC GREEN GLASS

Lettered NOT TO BE TAKEN

OR AS SKETCH.



WRITE AT ONCE FOR
SAMPLES AND PRICES

T. Ferry & Son, Ltd.

PARK LANE GLASS WORKS,
GATESHEAD-ON-TYNE.

Telegrams: "Bottles Gateshead."

Tel. No. 70 Gateshead.

The most famous European Fly Catcher is
AEROXON
with its Pin!



See the Pin!

Full guarantee that Aeroxon keeps perfect during 2 seasons!

If your dealer cannot supply you, write direct for quotation and samples to

**Aeroxon Fly Catcher Works,
Lux Bros., Ltd. 87 Boro' High Street, London, S.E.**

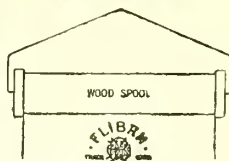
The **DEADLY HOUSE FLY**

When requiring a high-class, neat, efficient reliable line for destroying this pest, try

BROWN'S
perfect
"FLIBAN"

OR

BROWN'S
improved
"FLICO"



(2½ ft. long × 2½ in. wide)



(about 3 ft. long × ½ in. wide)

TWO LINES YOU CAN DEPEND ON.

BRITISH MANUFACTURE. Quality unsurpassed. Splendid keeping qualities, popular everywhere, repeats assured, and shows a grand margin of profit to retailers.

OBTAINABLE FROM ALL WHOLESALEERS
or from the Sole Manufacturers and Proprietors.

The BROWN MANUFACTURING Co. Ltd.
Letchworth, Herts.

SEND FOR SAMPLES AND PRICES TO-DAY.

TANGLEFOOT SEALED STICKY FLY PAPER.

SIR JAMES
CRICHTON-BROWNE,

in his Presidential speech at the Annual Conference of the Sanitary Inspectors' Association on August 6th, said: "The Fly plague in South Africa was markedly diminished wherever punctilious care in the prompt removal of all refuse from the vicinity of the camp was combined with a liberal use of

**TANGLEFOOT
FLY PAPER."**

The Times, August 9,
1902.



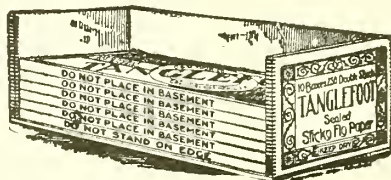
ALABASTINE CO.

**BRITISH,
LIMITED,**

**CHURCH STREET,
SOUTH LAMBETH,
LONDON, S.W.**

ALSO OF

All Chemists' Sundriesmen.



Parcel Post,
packed,
150 Sheets, 5/-

Per case of
500 Sheets, 15/-

NEW SIZE TANGLEFOOT, 10/6 per case of 400 Sheets.
TANGLEFOOT is specially adapted for hot climates, and is sold throughout the world.

"EXCELSIOR" Fly Paper

(PATENTED).

MANUFACTURED BY

GEORGE PETTIT,

**Rosebery Avenue, Llandudno,
Works: Birmingham.**

In placing this Patent Fly Paper upon the Market, I do so with a full assurance of its value and effectiveness in attracting flies.

The Patent Fly Catcher is pronounced by all users as a most effectual one, and bears out all that is claimed for it. The patent consists of a number of black lines printed on a semi-transparent paper. This allows the lines to be seen from the opposite side. This device in having black lines is much more effectual than using plain paper. A TRIAL IS SOLICITED.

6/6 per gross post paid on receipt of P.O. To Colonies 9/- post paid.

PATENT
No. 1287-1912
EXCELSIOR
FLY PAPER



GARDNER'S PATENT

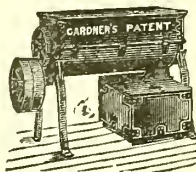
"RAPID" SIFTERS & MIXERS
OVER 4,000 working in

almost every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
duced, all being done at
one operation and without
loss by dust.

FOR HAND OR POWER.

From 55/- to £90.

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GENERAL
PRINTERS**

Offices
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 Works: Whetstone Park.

**LETTERPRESS
LITHOGRAPHIC
TRI-COLOUR**

FLY CATCHERS.

THE "TURNSTILE" IMPROVED FLY COIL

2½-in. wide. 6/6 gross.
 Ribbon Sticky both sides,
 contained in a neat box.
 Clean and effective in use.

THE "KACH" FLY RIBBON.

2½-in. wide. 6/6 gross.
 Ribbon Sticky both sides.
 Contained in assorted color-
 ed boxes. A sure catcher.

THE "SWALLOW" FLY PAPER.

5/- gross.
 Flat, Sticky Paper.
 The Old Favourite Fly
 Exterminator.

THE "SWIFT" FLY CATCHER.

— 4/6 gross. —

A most successful Sticky Fly Paper.

CHEMICAL FLY PAPERS.

Printed with customer's own Advertisement.

500 for 10/- 3,000 at 13/-
 1,000 for 15/- 5,000 at 12/-
 2,000 at 14/- 10,000 at 11/-

FLYCATCHERS.

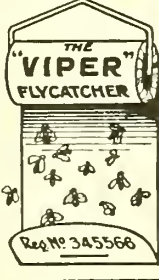
THE
"FLYSAC"
 Reg. Trade Mark
 Pat. No 20631-1909



THE
"VAMPIRE"
 Reg. Trade Mark
 Pat. No 4172-1899



THE
"VIPER"
 Reg. Trade Mark
 Pat. No 566-1909



"COME TO STICK!"

These three makes, no longer an experiment, but an attained success, are made of the best materials obtainable, and are neatly displayed and packed with smart, up-to-date advertising matter.

BIG PROFITS. QUICK SALES. LARGE REPEATS.

Send for Samples and Prices. They bear out our claims.

SOLE MAKERS AND PATENTEES:

KAY BROTHERS, Ltd., Stockport

Nat. Tel. 247.

Telegrams: "KAY STOCKPORT."

CAUGHT ALL BUT ONE & I'LL HAVE HIM SOON

THE DOOMO AIRSHIP FLY BAND

1d each PATENTED

THE DOOMO AIRSHIP FLY BAND

A wide band, sticky on both sides, unrolling like a blind.
 6s. 6d. gross, post paid on receipt of P.O.

FLYDOOMO - the old favourite Fly Paper.
 4s. gross, post paid on receipt of P.O.

Jno. H. Smith & Co.

NEWARK-ON-TRENT

FORGROVE WRAPPING MACHINES

Note what users say :

Dear Sirs,

With reference to the instalment of SEVEN "PEPS" WRAPPING, COUNTING, AND PACKING MACHINES which you have recently completed, we have pleasure in notifying you that these are giving every satisfaction, turning out the work in a way in which we hardly anticipated would have been possible when you undertook the responsibility of designing these.

Yours truly,
C. E. FULFORD, Limited.

Dear Sirs,

I have pleasure in enclosing cheque to cover your statement for the Tablet-filling Machine. When your representative was here it ran perfectly, and as soon as we can standardise our bottles I think we shall have the best Tablet-filling Machine on the market.

I will order another one later on when I see exactly what I require.

I take this opportunity of thanking you for the care you took and the time you spent over the matter.

Yours faithfully,

THE VENO DRUG CO., Ltd.

THIS

Forgrove Machine wraps Round Medicated Tablets

100 TO 120 PER MINUTE OUTPUT.

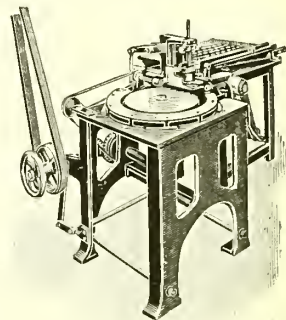
Machines for Counting and Filling Tablets and Pills

INTO BOTTLES AND OTHER RECEPTACLES.

We make Machines for wrapping soap, cube blue, meat cubes, chocolate, cocoa blocks, caramels, and Machines for Twist Wrapping.

THE FORGROVE MACHINERY CO. Ltd.,

Admiral Street, Dewsbury Road, LEEDS.



The SERUM TREATMENT of

HAY-FEVER

Autumnal Catarrh, Rose-Fever, and Similar Complaints.

POLLANTIN

(liquid, powder, and also salve)

(ANTIDOTE FOR POLLEN TOXINE) for external use.

Patented in Germany, England, the United States, &c.

Prepared under the supervision of the Discoverer, PROF. DR. DUNBAR by
SCHIMMEL & CO., Miltitz, near Leipzig (Germany).

Sole Agents for the U.K. and British Colonies (Canada and Australasia excepted):

**WILLOWS, FRANCIS, BUTLER & THOMPSON, Ltd., Wholesale Druggists,
40 ALDERSGATE STREET, LONDON, E.C.**

By Royal Warrant to
H.M. The King.



By Royal Warrant to
H.M. The King.

Only
ONE
Address.

DAY & SONS, ESTABLISHED 1840.
CREWE. LTD. (CREWE)
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only
ONE
Address.

LARGEST SALE IN THE WORLD.



DAYS' BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills, and Low Condition in all Stock.

Price 1/8 per bottle.

DAYS' HUSKOLEIN.

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle.

DAYS' "ZOMO-SAL."

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

DAYS' RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colic, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz

DAYS' OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAYS' WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints &c.

2/6 and 6/- per bottle.



DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM
DAY & SONS, CREWE, LTD.,
CREWE, ENGLAND.
LIBERAL TERMS FOR FOREIGN BUYERS.

A postcard brings you full particulars of the greatest Motor offer ever made.

When you think of it—

Why should you have two motor cars, when one will serve a dual purpose. Here is a 10/12 h.p.

Belsize

with a Dual Body.

One a 7-cwt. delivery van, the other a four-seater touring body, and you can make the change in a few minutes. This means real economy in garage space, running costs, depreciation, taxes, etc.

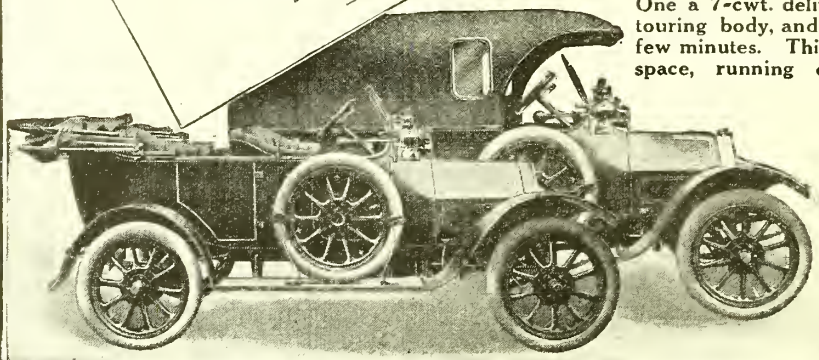
You can buy this car

on our unique easy payment system, 25% down, the balance with only 2% added, in twelve small monthly instalments.

This car works for you as you pay for it.

Humour your impulse, and send that postcard to-day.

Bentnck Motor Supply Co., Ltd.,
N.1. 13 Spring Gardens, Manchester.



Telegrams—"Wiclit-Cent. London." Telephone—7630 Central.

FREE CHURCH TOURING GUILD,

Memorial Hall, Farringdon St., LONDON E.C. (Founded 1906.)

President—Rev. J. SCOTT LIDGETT, M.A., D.D.
Secretary—W. G. FORSTER, Memorial Hall, E.C.
Continental Secretary—B. PAICE HUGHES, B.A.

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No extras. All prices include Return Tickets.

Belgian Tours include Excursions also.

NAMUR, The Gateway of the Ardennes...	14 Days for	£5 10 0
BRUCES AND HEYST	14 Days for	£5 5 0
Week-ends in Bruges, 3 Days		£2 12 6
16 Days' CLARENS-MONTREUX TOUR		£7 17 6
16 Days' LUCANO TOUR		£8 12 6

All Swiss and Italian Tours by the short Sea Route.

DEPARTURES { BELGIUM—Every Saturday.
SWITZERLAND—Tuesdays and Fridays.

For Illustrated Booklet, with full particulars, apply The Secretary, Free Church Touring Guild, 29 Memorial Hall, Farringdon St., London, E.C.

Comprehensive all risk Motor Insurances on Private and Trade Vehicles, Cycles, and Cycle-cars are granted by the "London and Midland." Their policies protect you everywhere and in every way, and give benefits and cover contingencies not provided for by others. Moderate premiums and liberal bonuses. Established 1859.

Write to-day for Prospectus "Q 4" to The London and Midland Insurance Co., Ltd., 39, 40, 41, New Broad St., London, E.C.

YOUR SHARE?

Are you getting your share of the business?

"MILES AHEAD OF SOAP"
GRE-SOLVENT
INSTANTLY
DISSOLVES GREASE AND GRIME

Liberal supply of Advertising matter.

Is having a marvellous sale wherever introduced. It is unequalled for cleaning the hands of all working people, as well as the dainty hands at home, and has a score of uses to the housewife for cleaning paint, kitchen pots and pans, &c.

FOR 10/- we will send you a large parcel as a trial order.
QUICK SALES. GOOD PROFITS.

PERKIN & CO., Ltd., Gresol Works, LEEDS.

JUST WHAT YOU WANT!!!

GLASS BOTTLES AT THE RIGHT PRICE.

We make Vials, Poisons, all shapes and colours
Special Ammonia Bottles to meet the requirements of the Act.
Winchesters, plain and stoppered.
Mineral Water Bottles, all kinds.

Perfumery Bottles, all shapes and sizes.

BOTTLE EXPERTS,
any special shape or colour made by our up-to-date Patent Gas Furnaces and Machinery.

Before placing your orders elsewhere ask your Merchant to consult or write to
R. ORROCK & CO., GLASS WORKS, Barking, Essex
Established nearly a Century.

Prompt Sales Increasing Demand Quick Turnover Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., LIMITED,
Wincarnis Works, Norwich.

WINGARNIS

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants,
— Manufacturing Chemists —

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, leaving a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " " "	1/-	7/-
* " " " " " bottles in cartons	1 6	10 6

* Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema

1/- 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

**SPECIAL TERMS ARE OFFERED FOR
WHOLE OR PART WINDOW DISPLAYS.**

A Doctor's Advice to the Anæmic
and Run-down—Take a course of

WELCH'S

Non-Alcoholic

INVALID WINE

Every pint represents the juice of 5 lbs. of the finest grapes. As a producer of Pure New Blood nothing equals it. Each glassful you take is a step onwards towards renewed health.

A PERFECT FOOD AND A DELICIOUS DRINK.

Sample Bottle Post Free for 2 6

THE WELCH GRAPE JUICE CO., LTD.,
(Desk C), 61 Farringdon Street, LONDON, E.C.

SAL HEPATICA

PUT UP FOR EXPORT.

Small Size, 3 oz. bottle, in case.
Medium " 7 " " "
Large " 16 " " "

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane,
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Square, E.C.

Roberts & Co., 76 New Bond Street, W.



BEATSON, CLARK & CO., L^{TD}.

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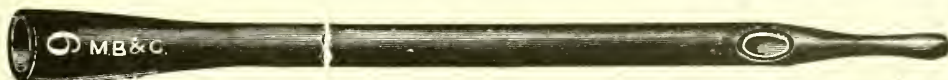
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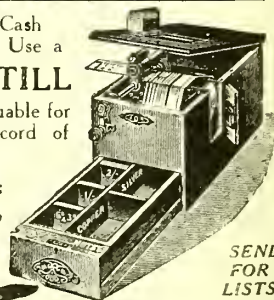
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BRIECETH, North Wales.—The best Chemist's Shop in the town for immediate Disposal; will sell at a sacrifice, £175, or at best offer; easy payments can be arranged subject to guarantee. Apply, Parkin S. Booth, F.A.A., Accountant and Editor, The Association of Manufacturing Chemists, 2 Bixteth Street, Liverpool.

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TWO COUNTIES.—Highly desirable good-class Retail, Dispensing, returning £1,400 to £1,500 per annum; net profits £50 to £400; exceptional opportunity. For further particulars apply, Southall Bros. & Barclay, Ltd., Valuation and Transfer Department, Birmingham.

TWO COUNTY.—For Disposal, a very profitable Light Retail and Dispensing Business; returning £500; N.I. Dispensing; low rent; no opposition; well fitted and fully stocked; changed hands once in 30 years; excellent chance for beginner; net £300 or valuation of stock and fixtures. "Genuine" (9/7), Office of this Paper.

KENT.—Country Business; thriving Manufacturing district; nearest Chemist five miles; increasing National Health Insurance; excellent opening for Photography, also scope for Optics, Electricity, Side-lines, etc.; cutting prices unnecessary; opportunity for small capital; shop and dwelling accommodation, at low rent; only nominal figure for fixtures. W. Frayling, Cliffe, Kent.

LANCS. (Popular Seaside Resort).—Good-class Retail and Dispensing; good opening for Optics and Dentistry; returns over £930, increasing; books kept; every investigation; profits 3 per cent.; seasons just commencing; price £700. Apply, "edious" (113/34), Office of this Paper.

LONDON (few miles out).—Exceptional offer; owing to breakdown will accept £800 or close offer for well-established Business; turnover exceeds £1,450, all ready money; net profit about £450; modern, up-to-date Pharmacy; practically unopposed; stock and fixtures worth price asked. Apply, "Reliable" (119/106), Office of this Paper.

MANCHESTER.—Good sound Business for immediate Disposal; takings last year £470; could be greatly increased by an up-to-date man; rent £40; good house, with separate entrance, could be let off; must sell; death vacancy; no reasonable offer received. 27 Palatine Buildings, Brooks's Bar, Manchester.

MIDLAND City Suburb.—Good Prescribing and Dispensing Business for Disposal; returns over £1,300; net profit £400; plenty of scope for increase, especially Optical and Photographic; pleasant locality; lock-up, well fitted, electric light; assistant; net £550; price £800; owner, owing to ill-health, anxious to leave soon; Dentistry would make splendid addition. 115/34, Office of this Paper.

NORTH OF ENGLAND.—Most desirable locality; good-class Family Retail and Agricultural Business; returns approach £3,000, with profits much above the average; fullest investigation offered; cash required about £2,400; valuation terms arranged; principals only dealt with. Address, 119/16, Office of this Paper.

WORKS.—Good genuine Business; corner shop, three good windows, main road; returns last year over £1,000 under unqualified; good Wine Licence (also for Spirits, not used); returns can be greatly increased under qualified management; splendid opening for Insurance Dispensing and Photographic goods; reason for selling; price £350; part may remain. "Zedex," Raines & Co., York.

ADVERTISER is desirous of selling his 600 £1 fully-paid Ordinary Shares, giving complete control; salary £250 per annum, in first-class West-End business two doors from Oxford Street, W.; leaving London; exceptional opportunity for smart Chemist; immediate possession; offers wanted. Apply, 115/9, Office of this Paper.

BARGAIN for Quick Sale.—£100 secures small Cash Business, showing net profit of £3 to £3 10s. weekly; could be increased, but proprietor is often absent; the district is a large and growing middle and working class residential, near a garage of the G. O. Co. employing 800 hands; family reasons for disposal. Apply, "Juvenis" (245/42), Office of this Paper.

CHEMIST, Stationer, etc.—For immediate Sale, genuine old-established Business; turnover £1,500; owner retiring; price, including freehold property, £1,400. Address, Box M., c/o E. Marlborough & Co., 51 Old Bailey, London, E.C.

FOR quick Sale, Lancashire, small Seaside Business: returns between £8 and £9 weekly, showing 25 per cent. net profit; stock worth £110 to £120; house attached, with big garden; suit young or elderly man; scope for good increase; accept £80 for quick sale. Apply, 117/3, Office of this Paper.

FOR immediate Disposal, small Chemist's and Druggist's Business in popular Seaside Resort in Cornwall; good position in main street; incoming easy; good opportunity for starting a business; giving up owing to proprietor's death. Apply, 118/5, Office of this Paper.

GOOD-CLASS Country Business, with house, shop, and outbuildings; returns about £550; profits unusually large owing to big sale of own Proprietary; nearest Chemist five miles; good opening for Dentistry and Photographic work; rent £21 a year; held on lease; changed hands once in 29 years; no Insurance Dispensing; every investigation invited; satisfactory reason for disposal; price £440. "Genuine" (114/33), Office of this Paper.

IMMEDIATE Disposal; Light Retail and Dispensing Business in large town in West of England; returns £600; exceptionally profitable; present hands 14 years; low price for quick sale; a genuine opportunity for considerable increase. "Nemo" (118/38), Office of this Paper.

OLD-ESTABLISHED Retail, Prescribing, and Dispensing Business; modern fittings; good stock; N.H.I. work; fine house, with long lease; net profit about £300. For full particulars apply, Jones, Pharmacist, Connah's Quay, near Chester.

OLD-ESTABLISHED Business in best position in thriving market town (Oxfordshire); neglected by present proprietor, who is retiring; good house; moderate rent; stock and excellent fixtures £60 only; could be much improved in energetic hands; inspection invited. W. H. Stephan, Chemist, Chipping Norton.

OLD-ESTABLISHED Dispensing Business; present hands 25 years; busy main street of pleasant suburb near Birmingham; lock-up shop, well stocked, and valuable fittings; returns about £600; ill-health cause of immediate disposal; N.I. Dispensing over £400; principals only; no agents. 118/40, Office of this Paper.

PROPRIETOR of a very old Business, South Wales, central position, large town, compelled by illness to sell prospective Business; returns over £2,000; good prices; rent £100, on lease; price, valuation stock and fixtures only; part purchase money can remain; or will treat with good business man as Working Partner. Friend, 1 Mountfield Road, Church End, Finchley, N.

TO Druggists.—For Sale, old-established Business in East end of Aberdeen. Apply, Alexander Clark, Advocate, 183a Union Street, Aberdeen.

TO LET.

SMART Chemist wanted to take well-fitted, up-to-date Shop, facing station G.N.R. main line; good living for capable man willing to work; no premium; rent only £50; good living accommodation; Dentist would take 2 rooms for Surgery if desired. Apply at once, Baynton, Auctioneer, 68 Myddleton Road, Bowes Park, or 86 Station Road, New Southgate, for key.

FOR SALE.

HAVING let my premises on lease, I offer, at valuation, my excellent Mahogany Shopfittings, in good condition; inspection invited. J. F. Brown, Pharmaceutical Chemist, 1 Cannon Street, Dover.

MEDIUM-SIZED, practically new National Cash Register for Sale; cheap for cash; issues receipt. Write Hopkins, 2 Hillmore Grove, Sydenham.

SALE of Stock and Fixtures.—Rebuilding of premises necessitates speedy Sale of Stock and Fixtures; stock in good condition, has just been taken, includes Optical goods and Sight-testing Records. Particulars Tomlinson, 45a Market Street, Manchester; or the vendor, Crook, Chemist, Southport.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AUSTRALASIA.—Good Agency wanted by advertiser, who has thorough knowledge of the market and is in a position to handle a good line. Please write, giving particulars, to H. A. Reeves, Ivanhoe Hotel, London, W.C.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

DRYSDALES, LTD., Wholesale and Manufacturing Chemists, Brisbane, Queensland, seek special Quotations, with samples, for Druggists' Sundries, especially for such articles as Tooth-brushes, Corks, Dispensing-bottles, Cotton-wool Lint and Bandages. Drysdales are open to consider fair offers for their appointment as sole Queensland or Australian Agents for any real live lines handled by Chemists. All communications should be addressed to the Managing Director, Petrie's Bight, Brisbane, Queensland.

BUSINESSES WANTED.

BUSINESS wanted, or suitable Premises where good opening exists, or Managership with view to early succession; preferably at or within about 30 miles of South-West or South Coast; fullest particulars will be treated in strict confidence; no objection to Agents; first advertisement. "Pater" (118/14), Office of this Paper.

INTRODUCTION requested to purchase of Retail, where Photographics not great feature; substantial turnover; London or bigish town near; not being curiosity inquirer, usual confidential preliminary details regarding price, etc., will oblige, as indicating quarters where deal most likely to result. Address, "Luxembourg" (119/15), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

BERMONDSEY.—Wanted, capable Dispenser: five working days a week; also Assistant Dispenser three evenings weekly; good salary to right men. Barnett, 97 Southwark Park Road, S.E.

BIRMINGHAM.—Qualified Chemist wanted for medium-class business, with N.H.I. Dispensing; no heavy trade; age immaterial; consideration given to reliable men seeking permanency. Apply, with full particulars, "Birmingham" (114/31), Office of this Paper.

HAMPSHIRE INSURANCE COMMITTEE.

THE above Committee invite applications for an Officer (time) to undertake the work of checking Prescription and matters incidental thereto as may be required by the Committee. Applicants should apply in their own handwriting, stating age, experience, present occupation, qualifications, and salary required, and forward two recent testimonials. All applications should be endorsed "Prescription Chemist," and must be forwarded, addressed to the Clerk of the Committee, Westgate, Winchester, not later than June 18th.

BIRMINGHAM (near).—Assistant, qualified or unqualified for Retail and Dispensing; outdoors; young man preferred; usual particulars and salary required to M. H. G. Pharmacist, Great Bridge, Staffs.

BIRMINGHAM.—Part-time Assistant required; evenings permanent; Mixed business; must be able to Dispense. "Brook" (116/43), Office of this Paper.

BLACKHEATH.—Wanted at once, young qualified gentleman for first-class Family and Dispensing business; must be neat and accurate Dispenser and used to a quick business; outdoors. Please send full particulars to Bailey, Pharmacist, 61 Old Road, Blackheath, S.E.

BOURNEMOUTH.—Capable Assistant wanted; outdoors; all qualifications, not essential. J. H. Sharland, Pharmacist, 52 Holdenhurst Road, Bournemouth.

BRISTOL.—Reliable and capable Assistant required; Dispensing and General Retail business; weekly half-holiday and no Sunday duty; comfortable, permanent situation for a single man. Please state age, whether qualified or unqualified and all usual particulars, references, etc., in first letter, addressed, "Vortex," 98 York Road, Montpelier, Bristol.

CLAFTON-ON-SEA.—Competent Assistant wanted for at least three months for Dispensing, Light Retail, and Photographic business. Apply, giving full particulars and enclosing photo to W. Mann, Pharmacist, Clacton-on-Sea.

EASTERN COUNTIES.—Wanted, an unqualified Assistant for a good-class Mixed Country business; an accurate and reliable worker; no Insurance Dispensing; short hours; no Sunday, holiday or holiday duty; comfortable berth; outdoors. Apply, with all particulars, age, experience, when disengaged, and salary required, to 116/57, Office of this Paper.

FELIXSTOWE.—Immediately, for season, June-October, competent Assistant for Dispensing and Counter in high-class business; Photographic experience desirable; outdoors; kept. Usual particulars to H. F. Douthwaite, Pharmacist, Felixstowe.

LEEDS.—Wanted, Branch Manager; qualified; good home or manancy for good man. References, all particulars, and if possible to Armitage, Pharmacist, Tong Road, Armley, Leeds.

LONDON (near Parks and Museums).—Unqualified Man immediately; no Poisons, no Insurance Dispensing; easy situation; speciality Botanic Medicine; not essential; an intelligent, honest man, with rudiments of the trade, could be instructed to manage a Drug Store; state salary required; room on premises: "The early bird catches the worm." 116/13, Office of this Paper.

LONDON.—Assistant, accustomed to Dispensing and Retail business; qualified and outdoors. Apply, with references, photo, height, etc., to "C. E. L." c/o Messrs. Willows, Francis, & Thompson, 40 Aldersgate Street, E.C.

LONDON, E.—Unqualified Assistant required for modern business; Counter and Dispensing experience essential; manancy state age and when at liberty and salary required. 116/44, Office of this Paper.

LONDON, N.—An experienced Assistant, also a good Junior, for fair middle-class business with N.H.I. Dispensing. (letter only), stating experience, names of references, when engaged, and salary required (indoors), "Chemist," 300 Abchurch Lane, Stoke Newington, N.

LONDON, N.—Outdoor Assistant wanted; good salary for competent man. Apply, stating age, experience, and when engaged, photo if convenient, Bately, Chemist, 682 High Street, Tottenham.

LONDON, N.—Qualified Manager wanted for working and retail class district; excellent prospect to suitable man, who has good references. Apply S. Briggs, Chemist, 31 The Broadway, Crouch End, N.

LONDON, N.—Qualified Manager; good opportunity for seeking a permanency. Apply, stating age, experience, height, and salary required (outdoors), to Dow, Chemist, 33 Green Lanes, Harringay, N.

LONDON, N.—Qualified Assistant, capable of taking full class of business. Apply, stating age, height, experience, and salary required (outdoors), to 119/1, Office of this Paper.

LONDON, N.—Qualified, elderly; light duties; easy hours arranged; or one seeking evening employment, 6 to 9.30 p.m., suit out. State salary, references, etc., "Comfortable" (11/34), Office of this Paper.

LONDON, N.W.—Part-time Assistant; comfortable home, board, lodging, time for study, and fair salary offered to gentlemanly about 25; one accustomed to brisk ready-money Retail trade. W. O. Tucker, P.O., Queen's Crescent, N.W.

LONDON, S.E.—An easy, comfortable berth offered to a qualified man; one desiring permanency preferred; pleasant neighbourly easy hours. Apply, Foster's Drug Stores, Ltd., 8 Selhurst South Norwood.

LONDON, S.E.—Qualified Locum, of good address and capable; three months' steady employment; salary £3 (outdoors); commence June 20. Apply, 118/7, Office of this Paper.

LONDON, S.W.—Capable Assistant; good Counterman and Dispenser; unqualified; previous West-End experience an asset. 111/6, Office of this Paper.

LONDON, S.W.—Assistant, with good experience, required for high-class business; must be qualified and capable of taking charge. Apply, giving usual particulars, to "X. Y. Z." (117/13), Office of this Paper.

LONDON, S.W.—Wanted, early in June, a competent Assistant; unqualified preferred, but not essential. Apply, with full particulars, stating salary (outdoors), to A. T. Gray, 5 High Street, Brixton.

LONDON, S.W.—Senior Assistant for high-class Store trade; unqualified preferred; good opening for a man capable of taking charge. Apply, 119/40, Office of this Paper.

LONDON, S.W.—Unqualified Junior Assistant required, about 25 years of age. Apply, giving usual particulars and salary required (outdoors), to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

LONDON, W.—Qualified Assistant for Dispensing Counter; outdoors. Apply, stating age, height, salary required, with full details of previous experience, to Roberts & Co., 76 New Bond Street, W.

LONDON, W.—Unqualified Assistant for good-class Dispensing business. Apply, R. S. Dampney, 87 Abingdon Road, Kensington.

LONDON, W.—Unqualified Assistant wanted end of June; Dispensing experience essential. Apply, with full particulars of previous experience, salary required, and age, A. E. Grimwade, 81 Oswall Road, Westbourne Park, W.

LONDON, W.—As Counterman, a smart Assistant, age about 25, good experience essential; outdoors. Apply, E. E. Evans, Chemist, Wm. Whiteley, Ltd., Westbourne Grove, W.

LONDON, W.—Smart unqualified Assistant wanted immediately; outdoors. Apply, personally or by letter, Spink & Co., 27 Tottenham Court Road, W.

LONDON Suburb.—Qualified Branch Manager for first-class Retail Dispensing, and Photographic; outdoors; good prospect and permanency for a competent, reliable, and energetic man. Give full particulars, including age, height, experience, salary, references, photo, to 120/1, Office of this Paper.

MANCHESTER.—Junior for good-class Retail and Dispensing business. Apply, with full particulars of experience, age, and salary required, to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Saleman. State age, height, experience, references, photo, 116/34, Office of this Paper.

MINCHEAD.—Wanted on or about June 11, outdoor Assistant (25) for high-class Business in this rising Holiday Resort; good Dispenser, knowledge of Photography; hours Mondays and Thursdays 8 to 9, Tuesdays and Fridays 8 to 8. Wednesdays 8 to 1.30, Saturdays 8 to 10; Sunday duty one hour. Give state experience, age, height, salary required, with photo (to be returned), Parkin, The Pharmacy, Minchhead.

NEWQUAY, Cornwall.—An Assistant for the summer months. Apply, giving all particulars as to salary (outdoors), experience, etc., to Alfred Bond, The Pharmacy, Newquay, Cornwall.

NORTHEAST LANCASHIRE.—Qualified Manager wanted; salary £3 per week and commission; must be good all-round man; give experience, age, height, and photo (to be returned) interview preferred. "Lake" (114/37), Office of this Paper.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months; salary £100 per annum, with rooms, board, and washing; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up at once. T. A. Fisher Hall, Secretary.

NORTH WALES.—Assistant wanted, outdoors, qualified or unqualified, in Dispensing, Photographic business. Apply, with full particulars, Williams, Medical Hall, Holyhead.

NOTTINGHAM.—W. Gill, Pharmacist and Optician, 207 Radford Road, will have vacancy in July for young qualified Assistant; Light Retail and Dispensing; no Sunday duty; usual weekly half-holiday; knowledge of Optics not essential.

OBAN, Scotland.—Experienced Assistant; outdoors; accustomed to good-class business; knowledge of Photo trade essential. State age, height; full particulars of experience and salary expected, when disengaged, send testimonials and photo (to be returned), Samuel Lawrence, Wholesale and Retail Chemist, Oban.

PENZANCE.—Wanted, temporary Junior Assistant for six to twelve weeks; outdoors; no Sunday duty. Apply, stating full particulars and salary required, to S. Carter, Chemist, Penzance.

ROCHDALE.—Qualified Manager required. State salary and usual particulars, "A. E. H.," 199 Yorkshire Street, Rochdale.

ST GEORGE'S HOSPITAL, S.W.—Assistant Dispenser wanted from June 22 to September 19; Minor qualification; age under 35; hours 9 to 5; Sunday duty 2 hours every third Sunday; salary £2 5s. per week; ladies ineligible. Applications, with references, to Chief Dispenser.

SHERINGHAM.—Assistant required early part of July for Season (about 12 weeks). Full particulars of experience, references, salary (outdoors), and photograph, to P. Cadman, Dispensing and Photographic Chemist, Sheringham.

SOUTH COAST.—Energetic Assistant, unqualified, but accustomed to high-class Dispensing and Retail; no Insurance work; outdoors. Apply, 119/2, Office of this Paper.

SOUTH KENSINGTON.—Wanted early in June, outdoor Assistant; must be good Dispenser and accustomed to high-class business; Sunday and evening duty shared by three. Apply, with usual particulars and photo if possible, to "B. R. W.," Stickland & Co., 23 Cromwell Place, South Kensington, S.W.

THE ROYAL PORTSMOUTH HOSPITAL, Portsmouth.—Male Dispenser required; candidates must be qualified Chemists and not more than 45 years of age; lunch provided. Applications, stating salary required, with copies of testimonials, to be sent to the undersigned, B. Wagstaff, Secretary.

TUNBRIDGE WELLS.—Smart qualified Assistant for good-class Dispensing and Retail business; outdoors. Apply, stating height, age, experience, references (photo if possible), salary required, and when disengaged, Pearmund, 47 High Street.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK MAY 30 1914
NATURE OF ADVT REPLIES

SIT. WANTED (UNQUAL)	22
DOCTORS DISPENSER	19
DITTO, NORTH LONDON	11
UNQUAL. ASSIST	11
QUALIFIED	11
UNQUAL.	10

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

WEST END.—Junior; must be well recommended, reliable, of good address, and smart Salesman; hours average 70 weekly; late night duty necessitates residence within easy distance Charing Cross; one whole day off each week; alternate Sunday duty after 4 p.m. Apply, with photo if possible, giving all usual particulars, and state salary required, to "R. D." (119/35), Office of this Paper.

WESTGATE-ON-SEA.—Assistant (22-24), unqualified, indoors or outdoors, for first-class Dispensing and Retail business; good Dispenser and knowledge of Photography; permanency. Please state experience, age, height, and salary required, to C. H. Dixon, Chemist, Westgate-on-Sea, Kent.

YORK.—Wanted in July, a thoroughly competent Assistant, about 25; unqualified; outdoors; businesslike and used to responsibility; Retail and Wholesale Mixed business, Veterinary, etc.; permanency to capable, energetic worker. Apply, giving full particulars, references, salary required, etc., to "F. G. H.," c/o Folkard, 13/14 Pavement, York.

YORKS (West Riding).—Unqualified man (single), capable of taking charge, required for Relief work; permanent and progressive berth afterwards if results are satisfactory. State age, experience, and salary required, "Locum" (116/40), Office of this Paper.

YORKSHIRE and Lancashire.—Qualified Locum required to take charge of businesses during holidays of managers; permanency afterwards if Locum work satisfactory. 116/42, Office of this Paper.

A DISPENSER wanted for morning and evening; unqualified preferred; suit a student. Dr. Sampson, 13 Camberwell Green, S.E.

A FINE Opportunity for a Really Good Man.—Qualified or experienced unqualified gentleman required (outdoors) as First Assistant in good-class country-town business; hours 8-8 (winter 8-7), Saturdays 8-10; half-day weekly; no Sunday duty; good progressive salary and permanency assured to suitable man. Apply, stating all usual particulars, references, and salary desired, also photo if possible, to Horton, Chemist, Chichester.

ASSISTANT (outdoors), unqualified, for Specific Proprietary and Light trade; one able to Extract preferred; a steady, plodding man; permanent situation; good references indispensable. Holmes, Chemists, Nottingham.

ASSISTANT; 23-25; good Salesman, Window-dresser. Full particulars first letter, S. A. Shackleton, Hereford.

ASSISTANT; qualified preferred; first-class experience; good opportunity for advancement. Apply, R. A. Robinson (Malden & Co.), 195 Brompton Road, London, S.W.

ASSISTANT (indoors) for a good-class Retail and Dispensing business; close at 7.30 p.m., Thursdays 1 p.m., and Saturdays 9.30 p.m. Apply, giving particulars as to experience, salary required, age, height, and if possible enclose photo (to be returned), to W. H. Jones, Pharmaceutical Chemist, Malvern.

ASSISTANT wanted first week in July; age 26-36; outdoors; unqualified; one seeking a permanency; easy hours; references required. Bellamy, Pharmaceutical Chemist, Chelmsford.

ASSISTANT wanted; well up in Dispensing. State age, height, salary required, when disengaged, 117/9, Office of this Paper.

CAPABLE Assistant, about 25; accustomed to N.H.I. Dispensing; outdoors. Please state experience and salary required, Leighton, 565 Lea Bridge Road, Leyton.

CAPABLE Assistant; outdoors; qualified or unqualified; must have had good experience; no Panel work. Full particulars to R. & J. Herman, Pharmacists, Aintree, Liverpool.

CHEMIST and Dentist, doing all work on premises, has vacancy for Assistant. Please state full particulars, age, experience, where obtained, ability in Pharmacy and Dentistry, Surgical or Mechanical, if married, what family, class of business and hours used to, salary required, when disengaged, references, photo, Foster, Ivydale, Loudon Road, Portsmouth.

COMPETENT Assistant for good-class Retail and Dispensing business; age 25-35; outdoors; knowledge of Photographic trade preferred, but not essential. Full particulars, salary, references, etc., to J. R. Cave, Dispensing and Photographic Chemist, 52 Nevill Street, Southampton.

COMPETENT Assistant, 24-25, qualified preferred, well up in Dispensing, for high-class Dispensing and Family business; moderate hours. Please apply, with usual particulars, salary required, reference, and photo if convenient, to H. Dyson, Pharmaceutical Chemist, Reading.

DIRECTOR for Wholesale and Retail Chemists and Druggists.—old-established business; good paying concern; quarterly dividend £500 in Preference six per cent. or Ordinary £1 share, 50 guineas per annum; monthly meetings. Midland Chemical Company, Ltd., Company Promoters and Partnership Agents, County Chambers, Corporation Street, Birmingham.

DISPENSERS.—A number of Women Dispensers are required temporarily in connection with the pricing and examination of Chemists' prescriptions. Applications, on foolscap paper, in applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed 119/17, Office of this Paper.

EXPERIENCED unqualified Locum to take charge of a Drug Store in London for ten days or fortnight, during June or beginning of July; outdoors. State terms, when available and how long, and give references and full particulars. First letter to 115/4, Office of this Paper.

G. JOLLEY & CO., 13 Curzon Street, W., require a young man about 20, to act as Clerk and put up stock.

IMPROVER or Junior required; indoors; time for study and recreation. State salary, Davies Bros., Chemists, Gorse.

IMPROVER or Junior (outdoors) for quick Cash trade; state experience, and salary required; half-holiday weekly; day duty. Apply, with references, to J. & J. Thompson Ltd., Cash Chemists, Oldham.

JUNIOR Assistant required immediately; outdoors; short half-holiday weekly. State full particulars and salary required to Allen & Neale, Chemists, King's Lynn.

JUNIOR wanted; knowledge of Photography; seasonable manancy. Enclose photo, Scolchfield, St. Leonards-on-Sea.

JUNIOR Assistant wanted; outdoors; Retail. Apply, with full particulars, Ayre, Thirsk.

JUNIOR Assistant required, now or early in July; outdoors; Light Retail, Dispensing, and Photographic; no Sunday duty. Kirkman, New Milton, Hants.

JUNIOR Assistant wanted for good-class Dispensing and Retail business. Allen & Lloyd, Aldershot.

JUNIOR or Improver required about June 22; outdoors. Give usual particulars, or call, Gaze & Co., Pharmacists, The Avenue, Highams Park, N.E.

JUNIOR, smart, gentlemanly; good Dispenser, Counterman, Window-dresser. Particulars of previous experience, height, salary, and enclose photo to Manager, Hedges (Chas. & Co.), 10, 11, 12 Dale End, Birmingham.

JUNIOR Assistant, about 22, unqualified, outdoors, for Dispensing and Counter; weekly half-holiday; no Sunday duty. State salary required, with usual particulars, "P. J." (117/30), Office of this Paper.

JUNIOR or Improver for a Dispensing and medium-class business; no Sunday duty; comfortable berth; half-holiday time for study can be arranged. "Gloster" (117/21), Office of this Paper.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Mr. Chemists, 146 Hoppers Road, Winchmore Hill, N.

LADY Pharmacist required to manage Country business at Hawarden, near Chester, for Chemist's widow, who gives assistance; hours easy; lovely country; indoors preferred. In first instance, giving usual particulars, salary required to F. A. Bloor, Pharmacist, High Street, Longton, Stoke-on-Trent.

LOCUM wanted on June 13. State terms and references, photo if possible, to Clarke, 65 Whitegate Drive, B.

LOCUM, qualified, for 16 or 18 days in July or September; small good-class Dispensing and Family business; work indoors; single-handed. Give references of two recent patients, "St. John's Wood, N.W." (117/36), Office of this Paper.

LOCUM wanted in Dispensing business, June 30 to September inclusive. Full particulars, age, references, etc., with photo if possible, to Willis, Pharmacist, Lyndhurst.

MANAGER (qualified) for Modern Store business in busy class district; assistant kept; hours easy; no Sunday duty; comfortable position; commission on certain net profits; good salary. Give age, height, experience, and salary required (in confidence), 118/36, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

MANAGER or Locum required at once for a small branch. Full particulars in first letter, Murray, 221 Woodhouse Lane, Leeds.

MANAGER, qualified, outdoors, with view to succession on very easy terms; a splendid opportunity to man with small capital. Please give full particulars as to salary and references, "Immediate" (116/16), Office of this Paper.

MARRIED, unqualified Assistant for Suburban business; good Window-dresser and Dispenser; comfortable permanency for steady, reliable man. Full particulars to "London" (118/33), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, have a vacancy for an unqualified Assistant; permanency and good salary.

MR. TENNANT, Pharmacist, Frinton-on-Sea, requires the services of a qualified Assistant, accustomed to good-class business; comfortable and progressive berth to a satisfactory man; easy hours; send usual particulars, with photo and salary required (outdoors), an abstainer preferred.

OUTDOOR Junior Assistant at once for good-class business in Clapham district; accurate Dispenser and quick Counterman; also another, about 22, for seven weeks from June 29. Personal application, or if by letter enclose photo and particulars, Banbury, 390 Watworth Road, S.E.

PART-TIME; London, E.; four evenings per week; good Dispenser and Counterman. 116/41, Office of this Paper.

QUALIFIED Assistant wanted about June 9 for City Pharmacy; must be thoroughly accustomed to high-class Dispensing; must be quick and accurate, and capable of assisting at Front Counter when required; hours 8.45 to 7. Saturdays 1.30; no Sunday, night, or holiday duty; salary £2 10s. per week plus 10 per cent. commission; long list of own Specialities. Apply, 114/11, Office of this Paper.

QUALIFIED Assistant, about 25 years of age, preferably with town experience; short hours; no Sunday duty. Apply, by letter, giving particulars and stating salary required, 115/24, Office of this Paper.

QUALIFIED Assistant, with good Counter and Dispensing experience and knowledge of Photography; indoors; progressive salary; permanency. Apply, stating age, reference, and photo, to Oliver, Chemist, Maidstone.

QUALIFIED Assistant wanted; one able to take entire charge; permanency; married preferred. Apply, with full particulars of age, experience, height, salary required, to W. Sleight, 134 Burley Road, Leeds.

QUALIFIED Assistant wanted by end of June for a good-class Country business; outdoors; no Sunday duty; short hours; three others in shop; please state age, height, and salary required, photo if possible. Apply, Exors. of E. Booth, Crewe.

QUALIFIED Assistant, age 25 to 30, outdoors, with good all-round experience. Full particulars with photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury.

QUALIFIED Assistant wanted at an early date for Light Retail and Dispensing business; easy hours; close 1 Wednesdays; no Sunday duty; good boating and bathing. State particulars, salary required, age, etc., Crick, Maldon, Essex.

QUALIFIED Assistant wanted to manage a Branch in Liverpool; Cash Retail and N.H.I. Dispensing; state salary required, experience and terms. Apply, "Borax," o/o Evans Sons Leecher & Webb, Ltd., Liverpool.

QUALIFIED Assistant, not under 25; hours 8.30 to 8, except Saturday; Thursday half-holiday. State age, height, salary required (outdoors), present and previous situations, with references, enclosing photo if possible, Reade Bros. & Co., Ltd., Wolverhampton.

QUALIFIED Assistant, with London West-End experience, required for best-class West End Pharmacy. Apply, with full particulars of previous experience, salary required, etc., to 119/6, Office of this Paper.

QUALIFIED; Light business; suit lady or elderly man; short hours; Paddington district. State salary required and full particulars, 119/9, Office of this Paper.

QUALIFIED Manager; good all-round man; experienced; age about 30; permanency and good salary to competent man. Apply, John Timmis, 147 Masons Hill, Bromley, Kent.

QUALIFIED Chemist or Druggist wanted to manage Company Branch in large Irish town. State age, experience, references, salary, "Company B." (118/2), Office of this Paper.

QUALIFIED Assistant wanted immediately for good-class Dispensing business; indoors; must be gentlemanly, appearance and address. State age, height, experience, salary required, and enclose photo, "Sussex" (116/31), Office of this Paper.

QUALIFIED Assistant required to manage small Branch in pleasant industrial neighbourhood near Cardiff and Newport; comfortable and progressive berth to reliable man; salary £3 per week and commission. Please name recent references and send full particulars, with photo if possible, in first letter, Clarke, Chemist, New Tredegar, Mon.

REALLY good salary to competent man, well recommended; Retail, Dispensing, and Photographic. Gibbs, Chemist, Margate.

RELIABLE Assistant wanted immediately; must be good Counterman. Apply, J. W. Taplin, 6 Cricklewood Broadway, N.W.

RELIEF Assistant wanted for one day a week from 1 o'clock and alternate Sundays from 6 o'clock. "Relief" (119/19), Office of this Paper.

SMART unqualified Assistant wanted; well up in N.I. Dispensing and knowledge of Dental work preferred; no Sunday or Bank Holiday duty. State salary required (outdoors), age, and full particulars, with references, to W. Holland, Chemist, 207-9 Alfreton Road, Nottingham.

SMART qualified Chemist wanted for busy provincial town; outdoors; accustomed to good-class Cash trade; applicants please state fully salary required, references, experience, and when disengaged; also one or two unqualified men. "Superintendent," P.O. Box 141, Leeds.

UNQUALIFIED Assistant (outdoors) required for Mixed business and Insurance Dispensing; age about 24. Apply, with full particulars and salary required, to Graham, 99 Leek Road, Smallthorne, near Stoke-on-Trent.

UNQUALIFIED Assistant for medium-class business, Dispensing, Counter, and Photographic; outdoors; not any Sunday duty; close Thursday at 1 o'clock. Apply, giving full particulars, to Hooper's Drug Stores, Ltd., 291 Rye Lane, Peckham.

WANTED immediately, reliable Assistant; unqualified; good salary. Stovin, Chemist and Optician, Eastbourne.

WANTED, in a lovely country town in Devon, elderly qualified man to conduct a widow's business with the help of an Assistant; very light duties, comfortable home, and nominal salary; abstainer and Churchman preferred. 114/29, Office of this Paper.

WANTED, a competent Assistant; outdoors; about 25. W. F. Pasmere, 320 Regent Street, W.

8 WEEKS (August 3 and onwards).—Qualified Locum, 30 to 35, for brisk business in Cumberland; must be absolutely trustworthy and with first-class all-round experience. Terms (outdoors) and all particulars to 117/22, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON Manufacturing Chemists require competent hand for Laboratory; must be accustomed to control of Steam-pans, Stills, etc., and have thorough knowledge of manufacturing processes for Extracts, Decoctions, Infusions, Syrups, etc. Apply, with full particulars and wages required, to 115/230, Office of this Paper.

N.W. LONDON.—Young woman wanted for packing Chemists' Specialities; must be thoroughly experienced and capable of exercising control. Write, full particulars of age, experience, and wages required, to "F. W." (119/260), Office of this Paper.

SOUTH COAST.—Traveller wanted to call on Chemists and Stores; must have connections. Apply, 95/22, Office of this Paper.

A MERICAN Proprietary Medicine Company opening up London Branch is open to consider a few applications for Representation in different parts of the United Kingdom on commission basis; article now being advertised and asked for; novel selling scheme. State experience, age, and district worked, 103/22, Office of this Paper.

COUNTER hand, aged about 23, required on Dry Floor of London Wholesale house. State previous experience and wages required to 115/23, Office of this Paper.

DRUG Traveller wanted for Cumberland, Westmoreland, and North-West Lancashire. 244/42, Office of this Paper.

EXPERIENCED Traveller wanted to call on London Wholesale Druggist Sundries' houses; must have connection. Apply, 95/220, Office of this Paper.

INVOICE Clerks required with good knowledge of Wholesale Drug trade; must be quick and accurate at figures; preference given to residents in East London. Write, "Trophos" (245/61), Office of this Paper.

INVOICE Clerk required by a London Wholesale Druggists; must be experienced in the trade and have good knowledge of prices. 119/36, Office of this Paper.

JUNIOR Invoice Clerk required, with knowledge of Drug trade; must be quick and accurate at figures and able to use typewriter. Apply, stating age and experience, to 119/4, Office of this Paper.

JUNIOR Clerk wanted for general office work; must be good writer and quick at figures; one with knowledge of Surgical Instruments and Sundries preferred. Apply, stating age, salary required, experience, etc., to 119/20, Office of this Paper.

PHARMACISTS' opportunity.—Wanted, a really smart young Pharmacist, well versed in modern Therapeutics, of superior education, West-end experience desirable, to take up important position with high-class firm doing business with the medical profession; tactfulness and perseverance, together with capabilities in conversation, are necessary, and references of the highest order are fundamental. Handwritten application to "Desrous" (117/34), Office of this Paper.

PILL Coater, experienced; London Manufacturing house; good wages to right man. Apply, 115/40, Office of this Paper.

QUALIFIED Assistant, with knowledge of Therapeutics, required to introduce new Remedies to Doctors and Chemists. Apply, giving full particulars, to Box 447, c/o Matthews' Advertising Service, Staple Inn Buildings, High Holborn, W.C.

TABLET Hand wanted by London firm; must be thoroughly acquainted with the trade. State age, experience, and wage required to "T. G." (119/26), Office of this Paper.

TABLETS.—Wanted, a Sugar Coater. State experience, wages required, and full particulars, Timothy White Co., Ltd., Portsmouth.

TOLLET Requisites, Perfumery, Soaps, etc.—Wanted, Buyer for these departments; must be well experienced, young, energetic, and anxious to succeed. Apply, stating age, references, and salary required, to "T. R." c/o Lewis's, Ranelagh Street, Liverpool.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; hours 9 a.m. to 6.30 p.m.; passage paid out and home by P. & O. steamship. Apply, with copied testimonials and photo, to "R. L." S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant; good Salesman and Dispenser; salary £20, £22, and £24 per month; second-class passage paid out; an exceptional opportunity for good man; references must be undeniable. Full particulars, including age and experience, to "Nairobi," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

CALCUTTA.—Messrs. Bathgate & Co. require two Junior Assistants, with Minor qualification, age 21 to 26, unmarried; passage paid both ways; four years' agreement; salary first year (monthly) Rs. 250, second Rs. 275, third Rs. 300, fourth Rs. 325. Apply, giving particulars of experience, to Messrs. Alex. Lawrie & Co., 14 St. Mary Axe, London, who will be pleased to answer all inquiries.

CHINA.—Drug Warehouse Clerk, experienced in keeping Stock books and filling Orders; age not over 30; good salary; passage paid out and home; 4 years' agreement. Address "China" (116/3), Office of this Paper.

INDIA.—Required shortly, a first-class qualified Assistant, age about 23, for English Chemists doing high-class trade; good salary and prospects for right man; four years' agreement; passage paid both ways. Write, giving full particulars of qualifications and experience, to Indo Burma Co., Ltd., 108 Wood Exchange, E.C.

JAPAN.—Qualified Assistant, about 30 years of age; four years' agreement; salary £144 first year, advancing £12 annually to £180, with residential quarters and board, also a commission on net profits; second-class passage paid via Siberia, and return passage home if agreement completed. Apply, with copied testimonials and photo, to "R. L." S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

PARIS.—Assistant with knowledge of French and Continental experience; vacancy also for good Dispenser. Age, height, references, and salary (outdoors), to "Codex" (245/34), Office of this Paper.

WANTED, Pharmacist, with thorough Manufacturing knowledge and capabilities for developing high-class Pharmaceutical business in Portugal; good salary for right man. Apply, sending full particulars, to "A. N." (115/14), Office of this Paper.

APPRENTICESHIPS.

APPRENTICE wanted in good-class Dispensing business; proprietor is modern and up to date, with West-End, French, and Italian experience; three years' agreement and salary to commence; healthy district and thorough tuition guaranteed; month's trial. Kirkland, M.P.S., Pharmacist (Medallist, London), Crickhowell, South Wales.

YOUTH (16), tall, good appearance and address, as Apprentice in Retail and Dispensing business; previous experience; indoors; small salary. "Apprentice" (117/29), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

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ASSISTANT; temporary, also part-time; disengaged June 20 to 29 and evenings after 7; West-end district; Counter, Dispensing. "Locum" (117/28), Office of this Paper.

BERTH desired; whole or part time; unqualified. Hanson, 309 Garratt Lane, S.W.

CHEMIST is open to invest in sound business, with occupation; single. "Future" (116/25), Office of this Paper.

DISENGAGED; Locum; qualified; good references; age 38. 117/15, Office of this Paper.

EARLIER Holidays.—Lloyd Smith, 37 Victoria Street, Norwich, wishes to repeat another summer's Locum tour; experienced; qualified (Hall) Dispenser; excellent testimonials; reliable.

EVENINGS or part-time; unqualified; South London preferred; disengaged. "Vim," 29 Hetherington Road, Clapham, S.W.

EXPERIENCED middle-aged Chemist (Minor), not in good health, but active, seeks useful permanency; suitable moderate terms arranged; single; varied experience. "Adaptable" (116/250), Office of this Paper.

GENTLEMAN, with several years' Dispensing experience, offers services without salary in exchange more Retail; Extractor, generally useful. 119/10, Office of this Paper.

GERMAN Druggist (26), speaking English fluently, desires situation in Retail or Wholesale; Diploma. Apply, Mr. Schilling, 98 Ladbroke Grove, W.

HOLIDAY Relief, Managing Assistant; unqualified; town or country; Agricultural; good Prescribing and Dispensing experience; tactful; expert Window-dresser; disengaged May 9; or permanency. "Yorkshireman" (119/39), Office of this Paper.

JUNIOR Assistant desires situation within 50 miles of Manchester. 115/10, Office of this Paper.

LADY Dispenser, qualified, to Doctors or Institution; 4½ years' excellent reference from last place (London). "Dispenser," 7 Roehill Road, Wandsworth, S.W.

LADY Dispenser; disengaged few hours daily in August; within easy reach Brighton. 15/35, Office of this Paper.

LADY Dispenser requires part-time; London; excellent experience and testimonials. Apply, 119/29, Office of this Paper.

LADY (Hall) desires experience, Pharmacy or Dispensary; would accept small salary. Birford, 2 Jeffreys Road, Clapham.

LOCUM; 30 years' wide experience; qualified; disengaged June 10 to July 3. Present address, Smith (Manchester), 40 Avieson, Chemist, 117 King Street, Dukinfield.

LOCUM; experienced; disengaged; abstainer; 50; single; industrious; excellent references; unreg. "Tactful," 73 St. Andrew's, Uxbridge.

LOCUM; 25; best-class experience and Photographic; within 50 miles of London; disengaged June 29. 115/3, Office of this Paper.

LOCUM; 25; unqualified; disengaged July 4; quick Dispenser. Counter, Photography; excellent references. 113/30, Office of this Paper.

LOCUM; qualified; experienced; at liberty from 23rd. "Pharmacist," 23 Elms Avenue, Eastbourne.

LOCUM; experienced; qualified; abstainer; Optics. "Optico," Townsend, Westbury-on-Trym.

LOCUM (34); unqualified; thoroughly reliable and well recommended; varied experience, including Photo, Retail, and Visual Optics; disengaged from July 13 to September 3; no drug tests. "Chemist," 85 Albert Street, Regent's Park, N.W.

LOCUM; disengaged June 24; sound all-round experience; well recommended. "Insurance," 14 Arctey Road, Camberwell, E.

LOCUM; disengaged July 30; competent; reliable; highest references; 'Phone 81X, Brighton. Jones, Ph.C., 5 Lewes Road, Lewes.

LOCUM; unqualified; 35; disengaged 10th. Dewar, 57 Cranbrook Road, Thornton Heath.

LOCUM; qualified; now disengaged; exceptional experience. London and Continent. "Statin" (119/23), Office of this Paper.

LONDON or Suburbs.—Minor; 55; active; good experience and references; moderate hours and fair salary. "Ozone," 77 Rokefield Road, Hackney, N.E.

MANAGERSHIP, with view to ultimate succession preferred; town or country; experienced; married. 118/34, Office of this Paper.

MANAGERSHIP.—Qualified married man desires permanent position; age 42; first-class London and country experience; photography; best references. "Statin" (117/20), Office of this Paper.

MINOR; 41; single; live at or near shop; any capacity; terms moderate. "Dispense" (116/025), Office of this Paper.

NINE or two evenings from 7 p.m.; quick Dispenser. 5 King's Avenue, Hounslow.

PART-TIME; experienced Counter, Stock, Insurance; qualified. "Dispenser," 115 Scott-Ellis Gardens, St. John's Wood.

PHARMACIST (lady) desires engagement. "A. S." "Amble-side," Carshalton Park Road, Carshalton.

PHARMACIST just relinquishing business will require a good position as Manager, Traveller, or trustworthy post; exceptional references; age 45; very active; personal interview preferred. 117/18, Office of this Paper.

PHARMACIST (28), not disengaged, desires Management; highest references and experience; Midland. 117/17, Office of this Paper.

PORTSMOUTH District.—Assistant; 30; tall; good all-round; Window; Photography; sharp; unqualified; mornings, evenings 4.5, and Saturdays; permanency; small salary. "B. K.," 3 Leighton Gardens, Willesden, N.W.

QUALIFIED requires evening engagements from 6. James, "Planstead," Nottingham, Eltham, S.E.

QUALIFIED; 36; tall; married; Counter, Dispensing, Photography; London; disengaged. Stewart, 164 Highgate Road, N.W.

QUALIFIED, unmarried (31), desires Managership; salary and commission, with good prospects; good London and provincial experience; undeniable references; thorough attention given to business. "Sanatogen," The Yuccas, Holt, Norfolk.

QUALIFIED Manager (45), thoroughly experienced and reliable, shortly disengaged, seeks comfortable permanency; first-class references; abstainer; would consider Locum work. "Lancashire" (117/8), Office of this Paper.

QUALIFIED; 31; good all-round experience; Counter, N.H.I. Dispensing, etc. "Rhei" (118/11), Office of this Paper.

QUALIFIED; single; varied experience; permanency at moderate terms; London or elsewhere. "Customer" (116/205), Office of this Paper.

QUALIFIED Manager; 35; married; experienced Retail, Photographic, Store, etc.; original and enterprising; seaside; with view to succession preferred, but not essential. 116/35, Office of this Paper.

QUALIFIED desires Managership; permanency; married; 35; experienced; good Retail, Photographic. 116/21, Office of this Paper.

QUALIFIED; middle-aged; active; good experience and references. "Manager," 55 Henleaze Road, Bristol.

QUALIFIED; 31; excellent Dispensing and Continental experience; seaside preferred. 116/20, Office of this Paper.

QUALIFIED; Locum, permanency, excellent references; age 38. "Disengaged," 4 Citadel Terrace, Plymouth.

SENIOR; unqualified; London, provincial experience; undeniable references. "Verol," 201 Molyneux Road, Liverpool.

SURGERY Attendant seeks appointment with Doctor, town or country; qualified Dispenser, Bookkeeper, Dresser; highest references; abstainer. "Assistant" 337 Central Park Road, East Ham, E.

WINDOW-DRESSER seeks situation; also good Counterman; 9 years' experience; excellent references; disengaged end June; strict teetotaler. 111/23, Office of this Paper.

WHOLESALE.

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A REAL live Traveller, who has proved his sales capacity, is open to an engagement from a firm who are willing to pay for services; minimum £5 week and agreed expenses. "X. Y." (119/31), Office of this Paper.

CHEMIST, who has had extensive experience as a Representative in interviewing the medical profession, etc., and in selling high-grade Specialities, desires appointment; trained Salesman, capable Organizer, and good knowledge of systems. 117/38, Office of this Paper.

COLONIALS desirous of meeting a good man to transact their business in London; well known in the Drug, Druggists' Sundries, and allied trades; highest references. Apply, 120/2, Office of this Paper.

GENTLEMAN, with London and provincial experience amongst Chemists and Stores, wants position as representing a good house. 115/11, Office of this Paper.

INVOICE Clerk.—Young man desires engagement; smart, energetic; good experience; first-class references. 118/8, Office of this Paper.

PACKER, Drug Stores or Wholesale Druggist's; female; experienced. "M.", 46 Whyteville Road, Forest Gate.

REPRESENTATIVE, calling on Chemists in London and Suburbs, desires remunerative Side-line; commission and expenses. "G. P.," 23 Acton Lane, Harlesden, London.

TRAVELLING Representative; aged 28; disengaged; Proprietaries, Toilet Articles, Perfumes, Packed Specialities; sound connection, London, Midlands, Lancashire, North of England and Scotland; 5 years with two first-class London houses; thorough salesman; excellent references. 117/2, Office of this Paper.

MISCELLANEOUS.

MADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green. Shares for Sale (free of commission, subject).—20 Allen & Hanbury "B" Preference, 23s. 1½d.; 80 British Moss Litter Ordinary, 19s.; 100 Bovril Ordinary, 21s. 4½d.; 100 Ilford Ordinary, 15s. 3d.; 70 Veno's Drug, 20s.; 100 A. J. White's, 8s. 3d.; 300 Meggeson Ordinary, 22s.

Wanted (subject).—50 Boots Pure Drug 7 per cent. Preferred, 24s. 6d.; 300 Idrac "A" Preference, 3s. 4½d.; £500 4 per cent. Debenture, 6½; 200 Lewis & Burrows' Ordinary, 3s. 6d.; 100 Preference, 11s.; 1,000 Parke's Drug Ordinary, 4s. 7½d.; 100 Preference, 12s.; 170 Wright, Layman Preference, 20s. 7½d.; 2 Camwal Debentures, 34.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS.—Marble-top, Mahogany and Plate-glass Sponge Case, 79s. 6d.; 14-ft. Mahogany and Plate-glass Counter Case, 80s.; 6-ft. Mahogany and Plate-glass Counter, 80s.; Perfume Case and Desk, 40s.; hundreds of cash bargains; inquiries solicited. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Decks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

CHEMISTS' Second-hand Modern Fittings.—14-ft. Drug Fitting; 10-ft. Glass-fronted Counter; Nest of Counter Drawers; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; Mahogany and Bent Plate-glass Counter Case; 8-ft. Window Enclosure and Plate-glass Mirror; the lot £49, bargain; send for sketches, cheapest house for structural alterations, Shop-fronts, Window Enclosures, Glass Shelves; Estimates free. **H. MILLS**, Chemists' Shopfitter, Shop-front Builder, and Glass Facia Works, 163-5 Old Street, E.C.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. **S. E. HACKETT**, 23 July Road, Liverpool, E.

£25 10s. will buy 12 ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, **RUDDUCK & CO.**, 262 Old Street, E.C.

PRINTING tasty in design, produced under proper and healthy conditions from modern type, at up-to-date prices; Brochures, Packet, Handbill, Business Stationery and General Printing; have you seen samples? a postcard (printed heading) will bring them. **Walter Knight**, Chemists' Printer, Rushden. Established 1895.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37s. Sole Makers, **Arthur & Co.**, 9 K.P., Cambridge.

SCOTLAND SPEAKS.

"I am joining you again (3rd year), as I find it is impossible to keep up-to-date without your assistance."

Remember, up-to-date ideas in window shows, advertising, new specialities, window centres, are my Speciality. State your requirements. Sample Window Centre sent post free 2/6; only one Pharmacist in a town supplied. Special ones suggested and designed.

BILLYARD ALLISON, PHARMACIST, RETFORD.

LOANS at TWO PER CENT.

per annum interest to Tradesmen under 40 years of age, in the second or third year of their business in the City of London, OR WITHIN 5 MILES THEREOF. Loans of £100 to £300 granted upon unquestionable securities being provided.—Apply to **G. H. PAYNE**, Clerk of Wilson's Trust, Chamber of London, Guildhall, E.C.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

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FOR DISPOSAL.

DENTAL.

DENTAL Forceps.—A set of eight new dental forceps, nicely plated; what offers? Address, "A. B.," 14 Forest Hill Road, S.E.

OPTICAL AND PHOTOGRAPHIC.

BUTCHER'S popular Pressman camera; F 4.5 Aldie lens; 6 dark slides; used four times; £6 10s. "Epsilon," 33 Commercial Street, Newport, Mon.

MISCELLANEOUS.

SIX oxygen cylinders, 20 ft., with hemp covers; 20s. each carrying forward. Colby, Chemist, Brighton.

WANTED.

SKELETON of the foot, with movable joints. 113/35, Office of this Paper.

MEDICAL student's microscope wanted. Gwynne, Chemist, Liscard.

HAND tablet-machine wanted, cheap, for cash. "A.," c/o Smart Ad, Lambert House, Ludgate Hill.

AT once, dispensing cake and suppository mould (12), in good condition. Lowest price, 111/38, Office of this Paper.

"**PHARMACEUTICAL** Journal Formulary," in good condition. Tozer, Kemsley & Fisher, Ltd., 84 Fenchurch Street, London, E.C.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 4 Voltaire Road, Clapham, London, S.W.

POISONING FATALITIES.

EIGHT cases of poisoning have been chronicled since our last issue, and concise particulars of them are appended, six being suicidal cases.

Carbolic Acid.—**Maria G. Hargreaves**, Thornes, poisoned herself with carbolic acid.

Chloride of Mercury.—**Alice M. Swabey**, a probationary nurse, committed suicide with this chemical while of unsound mind.

Chloroform was the suicidal agent used by **George Thomas Marshall**, herbalist, Hull.

Nicotine.—**Thomas Williams**, gardener, Peaslake, Surrey, killed himself by swallowing a fumigating-liquid containing nicotine.

Salt of Sorrel was taken with suicidal intent by **Rosanna Humphreys**, of Shirley.

Sedative Mixture.—The Rev. **Louis Butler**, vicar of St. James, Clacton-on-Sea, died from cardiac failure brought about by exhaustion and doses of a sedative mixture which he had been advised to take.

Veronal.—At the Hackney Coroners' Court on May 3 the Deputy-Coroner held an inquest with reference to the death of **John Henry Sands** (21), lately living at St. John Newington. The Coroner said deceased was a well-known drug maniac, and had been addicted to taking veronal. The medical evidence was to the effect that death was due to veronal-poisoning. Mr. **Thomas Tabor**, chemist, 138 High Street, Kingsland, said that deceased purchased from him two bottles of veronal in tablet-form, saying he was going away and wanted a stock of it. Sands quite freely admitted that he was addicted to the drug-habit, but said he was doing his best to break himself of it, and witness believed him. Witness stated that veronal is not a scheduled poison and it is quite easy to procure, although it is not usually supplied except on a doctor's prescription. The Coroner said that deaths from veronal are becoming a kind of everyday occurrence, and Coroners were always urging that it should be scheduled as a poison. The jury returned a verdict of suicide while of unsound mind. [Veronal was scheduled as a Part 2 poison by Order in Council on March 12, 1913.]

EDITOR C. & D.

Kind not Stated.—A young woman of Gladestry, Radnorshire, died as a result of taking poison.

COMING EVENTS.

is section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, June 8.

Society of Chemical Industry, London Section. Burlington House, Piccadilly, W., at 8 P.M. Mr. E. H. Tripp on "The Dickson Centrifuge System of Sewage Treatment"; Mr. Eric K. Rideal on "The Reduction of Uranium Oxide"; Messrs. Clayton Beadle and H. P. Stevens on "Bleaching of Chemical Pulp."

REXALL CONVENTION.—A New York correspondent informs us that this year's meeting of Rexallites will be held in London in September.

BRAND PHARMACEUTICAL ASSOCIATION.—The annual excursion will be held on July 1 to Salford Priors and by river to Bidford-on-Avon. Particulars from Mr. F. Smith, Hon. Secretary, 221 Soho Rd., Hardsworth, Birmingham.

JAMES VALLER PHARMACISTS' ASSOCIATION.—A presentation will be made to the Hon. Secretary, Mr. W. H. Peake, on June 17, at the Thames Valley Café, Kingston. A social supper will be held for the occasion. Tickets (28. 6d. each) may be had from Mr. A. Higgs, J.P., Kingston-on-Thames.

VINCENT ASSOCIATION.—The annual river trip will take place on June 20. The party will leave Paddington by the 11.20 for Wargford, proceeding thence by launch to the Caversham Bridge Hotel, where dinner will be served. Lunch and tea will be provided en route. Tickets (15s. inclusive) may be obtained on application to the Hon. Secretary, Mr. J. R. Bailey, 11 Coshycoote Avenue, Herne Hill, London, S.E.

COLLEGE NOTES.

MANCHESTER COLLEGE OF PHARMACY.—Students from this College and their friends to the number of sixty were taken over the laboratories and works of Messrs. Evans and Lecher & Webb, Ltd., Liverpool, on May 20, under the leadership of Mr. W. Wellings. The party first visited the "Montserrat" lime-juice warehouses, the hot day making the visitors appreciate the tasting samples. The next extension and bridgeway were next inspected, before proceeding to the laboratories at Wood Street and Fleet Street. Here two sections of the visitors were placed under the care of Mr. G. W. Marris, Ph.C., and Mr. S. McFarlane, pharmacist. After the different processes of manufacture in progress had been explained, the pill-tablet and capsule rooms were visited. Counter-adjuncts and essential-oil distillation ended the survey of the premises. An excellent tea was served at Reece's Café, after which Mr. Brindle, one of the principals of the College, thanked the directors of the company for their hospitality.

Sports.

THE "P. D." AND "ALLENS" SWIMMING CLUBS met in a friendly team-race at Marshall Street Baths on Friday, May 29. The teams were six men each side, and the distance two lengths each man; the contest resulted in a win for the "P. D." Club by twenty-eight seconds.

It is the final of the Buyers' Provident Association Golf Tournament between Mr. F. H. Rowe (Whiteleys) and Mr. Jam. G. Dunnean (chemist to Jones Bros., Holloway), which was played at Neasden, the latter, conceding Mr. Rowe ten strokes in thirty-six holes, lost the match by 6 up and 4 to play after some exceedingly interesting play.

BIRMINGHAM PHARMACISTS' C.C. met the St. Phillip's Grammar School C.C. in a cricket-match at Harborne on May 27, when the Pharmacists won by eighty-nine runs. Mr. G. Grettton Watson hit up fifty-four runs out of 134 score by the winners. For the Pharmacists, Holgreaves took four wickets for eight runs, Turner three for eighteen, and Bentley two for eleven.

Eaton's Syrup.—At Woolwich Police Court on Thursday, June 4, a several-times deferred case under the Sale of Food and Drugs Act was heard and decided. The article was Eaton's Syrup, and the seller Mr. W. H. Clarke, chemist and druggist, 51 Plumstead Road, S.E. After hearing evidence, the Magistrate dismissed the summons on payment of two guineas costs. The Chemists' Defence Association defended through Mr. C. H. Kirby.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £s.) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," May 20, 1914.)

"LEOPARD," with picture of same; for soap and glycerin (3). By Hazlehurst & Sons, Ltd., 17 Highfield Street, Tithebarn Street, Liverpool. 358,581.

"PHENOVAL"; for medicinal chemicals (3). By J. D. Riedel Co., Riedelstrasse, Berlin-Brandenburg. 359,604.

"OXOBROMO"; for a pick-me-up (3). By J. Cleghorn, 15 Braemar Terrace, Clydebank, Glasgow. 359,707.

Classical picture, with words "SANUM HEALTH-BUILDERS" ("Sanum" disclaimed); for medicines (3), and for foods (42). By the Sanum Institute, Ltd., 59 Edgware Road, London, W. 359,924/5.

"PHEON" and "TESTORMON"; for medicines (3). By C. Richter & Co., 59 and 61 New Oxford Street, London, W.C. 360,218/9.

Circular device, with words "THE VEVAX BRAND, LONDON," and monogram "R.J.R."; for non-medicated instruments, etc. (11). By R. J. Reuter, 5-7 Denman Street, London, W. 360,008.

"NUTRISAN"; for an albumen and animal-charcoal food (42). By Naamlooze Vennootschap Chemische Industrie "Amsterdam," 46 Amsteldijk, Amsterdam. 357,037.

"DULCIFLOR"; for food-substances (42). By Stevenson & Howell, Ltd., 95A Southwark Street, London, S.E. 360,330.

"PROTEXON"; for oils and greases (47). By the Stern-Sonneborn Oil Co., Ltd., 16 Finsbury Square, London, E.C. 359,761.

Floral device, with words "BOOT'S LES FLEURS" ("Les Fleurs" disclaimed); for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 354,183.

"LEVATHOL"; for perfumery, etc. (48). By Tokalon, 20 West 22nd Street, New York, U.S.A. 356,900.

"MELROSA"; for dentifrices (48). By T. L. Reeve, 18 New Street, Birmingham. 358,261.

"JUNELLA"; for all goods (48). By E. V. Brown, 41 High Street, Long Eaton. 360,083.

"SINALCO"; for perfumery, etc. (48). By the Anglo-Indian Drug and Chemical Co., 155 Juma Masjid Market, Bombay. 360,469.

"EURYDICE"; for perfumery, etc. (48). By the Erasmio Co., Ltd., Warrington. 360,505.

"NONFLAMEL"; for brushes (50). By Low, Son & Haydon, Ltd., 5 Great Queen Street, Kingsway, London, W.C. 359,401.

(From the "Trade-marks Journal," May 27, 1914.)

Device of sailing ship; for chemicals (1 and 2). By Norsk Hydro-Elektrisk Kvaestofaktieselskab, 7 Solligaten, Christiania. 354,305/6.

"VOFFY"; for an insecticide (2). By W. Voss & Co., Ltd., Carlton Works, Millwall, London, E. 360,111.

Label device, with words "SIROP DES VOSGES" ("Sirop des Vosges" disclaimed); for a medicine (3). By A. Cazé, 68 bis, Avenue de Chatillon, Paris. 355,192.

"MALDO" and "NALDO"; for medicinal chemicals (3). By P. O'Connell Finigan, 176 Haverstock Hill, London, N.W. 358,699/700.

Label device, with word "SEPTONAL"; for a first-aid dressing (3). By the I.D.L. Industria's, Ltd., 116 Pilgrim Street, Newcastle-upon-Tyne. 359,561.

"SEN-CO"; for an ointment (3). By G. T. Fulford Co., Ltd., 46 Holborn Viaduct, London, E.C. 359,773.

"GOTTOLDS"; for medicinal tablets (3). By E. Moulton, 123 Princess Street, Stockport. 360,156.

Device of bottle in vineapple; for medicinal chemicals (3). By J. D. Dole, 112 Market Street, San Francisco, California, U.S.A. 360,163.

"FLEMETIS"; for medicinal preparations (3). By E. T. Rich, 30 High Street, Swansea. 360,171.

"MINARET" and "MINARET BRAND," with picture of same; for otto of roses (4). By Emin. P. Dimitriou, 2 and 4 Beaver Street, Whitworth Street, Manchester. 359,414/5.

- "ISOKRYSTAR"; for spectacle-lenses (8). By Emil Busch Optical Co., 35 Charles Street, Hatton Garden, E.C. 560,391.
- "DENSO"; for preparations for cleaning artificial teeth, etc. (48). By Reade Bros. & Co., Ltd., Cleveland Road, Wolverhampton, 355,061.
- "WARDEN," with picture of same; for perfumery, etc. (48). By J. Barrington & Sons, Ltd., 202 Great Britain Street, Dublin. 358,868.
- "ROSALYL"; for perfumery, etc. (48). By Taylors' Drug Co., Ltd., Burley Hill, Leeds. 359,693.
- Label with word "Io-Tr-Amo"; for perfumery, etc. (48). By H. E. Slinn, 10 Northgate, Gloucester. 359,851.
- "EMPRESS" and "PRINCESS"; for powder-puffs (48). By H. Nickel & Co., 101-105 Goswell Road, London, E.C. 359,945/47.
- "EL RAMA"; for perfumery, etc. (48). By G. E. Marfitt, 2 Infirmary Square, Leicester. 360,131.
- Circular device of masked woman, with words "CHÈRE AMIE INCONNUE"; for perfumery, etc. (48). By F. Boissard, 71 Rue Rivay, Levallois-Perret, Paris. 360,401.
- "AMIS DES FLEURS," "IVRESSE D'AMOUR," and "SUR LA PLAGE"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 360,504/508/510.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Catalogue of Lewis's Medical and Scientific Circulating Library, Second Supplement, 1911-13. 8½×5½. Pp. 123. 2s. net. (Lewis, 136 Gower Street, London, W.C.) [The first Supplement was published in 1909 to the Catalogue revised to the end of 1907. The present Supplement brings that work up to the end of last year. The prices are given of the books mentioned.]

Handbook of Useful Drugs. Prepared under the direction and supervision of the Council on Pharmacy and Chemistry of the American Medical Association. 7¼×4¼. Pp. 168. 50c. (Press of the A.M.A., 535 North Dearborn Street, Chicago.) [Consists of a list of drugs used in medicine, the selection being based on the conclusions of a committee, as revised after consultation and criticisms from teachers of pharmacology and therapeutics, the deans of medical schools, and secretaries and members of State medical and licensing boards. The style of the book is best shown by reprinting the first item, which, however, happens to be a very short one:

ACACIA.—Acacia, U.S.P., Gum Arabic.

A gummy exudation from *Acacia senegal* and other species of acacia.

PROPERTIES: Acacia occurs in colorless or pale yellowish opaque, brittle, inodorous tears or fragments, which are completely soluble in water, but practically insoluble in alcohol.

Mucilage Acaciæ.—Mucilage of Acacia, U.S.P.

A 34-per-cent. solution of acacia in a mixture of water and lime-water.

ACTION AND USES: Acacia and its mucilage are used as demulcents and suspending agents in the making of emulsions and mixtures.

At the end is a solubility list and a pharmacologic index. The booklet is a useful guide as to the range of drugs employed in the United States, and its handy form should be appreciated.]

Knox, J. *The Fixation of Atmospheric Nitrogen.* 7½×4½. Pp. 112. 2s. (Gurney & Jackson.) [The book deals with the more important attempts which have been made to utilise atmospheric nitrogen. It embraces chapters on (a) conversion of nitrogen into nitric or nitrous acids and their salts; (b) synthesis of ammonia and ammonium compounds from atmospheric nitrogen; (c) conversion of atmospheric nitrogen into compounds which readily yield ammonia.]

London Association of Accountants. *Year-book, 1913.* Diary pages+264. 7½×4½. 5s. (London: Temple Chambers, Temple Avenue, E.C.) [This book is well bound in purple-cloth cover with gilt lettering. The diary is three days to a page. It gives the articles of the Association, a list of members arranged both alphabetically and topographically, examination papers, and library catalogue. It is a useful directory for anyone requiring the services of an accountant.]

Macnab, W. *Lectures on Explosives.* 8½×5½. Pp. 67. 2s. (Institute of Chemistry of Great Britain and Ireland,

30 Bloomsbury Square, London, W.C.) [This booklet reproduces in printed form the author's recent lectures to the Institute.]

Maiden, J. H. *A Critical Revision of the Genus Eucalyptus.* Vol. II, Part 10, pp. 22, with four plates. Vol. I, Part 1, pp. 22, with four plates. 12×9½. 2s. 6d. [Parts XX. and XXI. of this work see the complete one volume (the second) and the beginning of another. references to *Eucalyptus gigantea* in the former at *cinnerea* in the latter illustrate Mr. Maiden's monumental task in disentangling the nomenclature of the eucalypti.]

MINOR EXPERIENCES.

E. C. Y. (86/36) thus describes the ordeal: January 1, 1914, was the eventful day for me. At 9.50 A.M. I found myself in Galen Place, London, W.C. After gaining the Examination-hall, it fell to my lot to be sent to

DISPENSING.—After a short look round the dispensary the following paper was given to me:

Ammon. carb.	...	...	...	gr. ij.
Tr. scillæ	...	...	...	max.
Syr. tolut.	...	...	...	3ss.
Inf. senegæ ad	...	...	...	3ss.

Tuss. urgent. cap. Mitte 3vj.

Pil. phosphori gr. j. Mitte xxv.

Inj. morph. hypoderm. sij.

Ichthyol. ... 10 per cent.

Ung. sulph. ad ... 3j.

Sodii citro-tart. effervesces about 50 grams.

There was no great difficulty here, and all was finished and the bench straightened up by 1 P.M.

PRACTICAL CHEMISTRY.—I mounted the stairs to the laboratories at 1.50 P.M., and soon afterwards received this paper:

1. Identify the insoluble substance which is mixed with the white sugar given.

2. Estimate the strength of iodine in the liq. iodi fort., using the pure sodium thiosulphate provided.

I returned the insoluble substance as magnesium phosphate and the iodine strength as just over 11 per cent.

The candidates were asked to call for their results after 6 o'clock, and I was very pleased to receive a notice to attend again on Monday, January 5, at 2 P.M. My first subject (after twenty minutes on the "funking form")

PHARMACY.—I was given ung. hydrarg. fort., ext. pil. rhei co. mass to identify. Name the ingredients of pil. rhei co., and give strength of mercury in the oil. Also state ingredients of pulv. ipccac. co., strength of opine in this and in pulv. opii. I was then shown an ampoule, and questioned as to its uses. How are ampoules sterilised? This included the porous porcelain method for liquid preparations which would be damaged by heat. I was asked strength of liq. sod. arsenatis. Why anhydrous solid used?

BOTANY.—I was told to pull a flower to pieces and identify it, giving the Natural Order (*Ranunculaceæ*). For this I was asked, "What different kinds of roots you know, and what are their various functions?" I had to answer questions about tap-roots, adventitious runners, suckers, tubercles, etc. My questions in

CHEMISTRY were: "Give me the Law of Gaseous Diffusion." "What is valency?" "What kinds of barometers do you know?" "Does the tube need to be straight?" "How do you have a bulb half-way up?" "How do you make ammonia and what is it?" "How do you make red phosphorus of phosphorus, and chlorides?" "What happens when you add phosphorus trichloride to water?" "Difference in properties of red and yellow phosphorus?" I was asked the method of making salicylic acid (natural and artificial) chloroform (rectified and methylated), aniline, potassium permanganate, oxalic acid, and acetic acid. After questions on oxides of lead and manganese, I was sent to

PRESCRIPTION-READING.—I had to decipher and read twelve scripts, to write one out in full Latin, to give of zinc acetate, zinc oxide, zinc valerianate, ext. ergotæ liq., phosphorus, pulv. ipccac. co., ext. cinch. ind., and hydrocyanic acid, with strengths of some of the following calculation: "Send 4 oz. of solution of sodium permanganate, one-third B.P. strength (with 87½ grains to the pint)."

MATERIA MEDICA.—I had to identify and give constituents of rad. aconiti, B.P.; Nepaul aconite, *K. argentea*, logwood (fermented and unfermented); B.P.?, belladonna-root, ergot (origin and growth), pods, and gelsemium.

A few minutes after being sent back to my paper the President congratulated me on having satisfied the examiners.



What the Pharmaceutical Press says:

Beautiful Picture has been produced by Messrs. Wright, Layman & Umney, Ltd., Southwark, London, S.E., in connection with Wright's Coal Tar Soap Window Display Competition. The original of the picture is Mr. Sheridan Knowles' "Oranges and Lemons," of which a half-page monochrome reproduction is given in the company's advertisement this week,

reference to which on the part of our readers saves us describing the subject. The reproduction is done by a modern process in the original colours, so that when framed and placed on the wall it is indistinguishable in colour and light and shade from the artist's original.—*The Chemist and Druggist*, May 30.

Wright, Layman & Umney.—We have had submitted to us a copy of the picture to which reference is made in Messrs. Wright, Layman & Umney's announcement in our advertising pages this week. It is really one of the finest reproductions of an oil painting that we have seen. The subject of the picture is a group of children playing upon a lawn, with a background of dark, luxuriant foliage that reveals the full possibilities of a theme when treated in the inimitable style of that well-known artist, Mr. G. Sheridan Knowles. The painter has caught the spirit of the game, and imparted to the picture that life quality known as the life touch, without which the children's faces would have the unnatural merriment of masks,

and their poses the awkwardness of automatons. All this, however, Mr. Knowles has avoided. One can almost hear the laughter of the little ones as they play, and their movements have the easy and unrestrained grace of childhood. The production of such a work in connection with an advertising campaign is indeed a fine piece of enterprise, and is deserving of success in the highest degree. The picture, which is mounted upon stiff paper of a convenient thickness, measuring approximately 2½ by 2½ ft., would certainly not disgrace any drawing-room, and its artistic value is considerably enhanced by the fact that not a trace of advertisement is exhibited, either upon the mount or on the picture itself.—*Pharmaceutical Journal*, May 30.

"Oranges and Lemons" say the bells of St. Clement's." Whether Englishman or woman, whether at home or in far away, does not conjure up the happy days of childhood on seeing or hearing those lines of nursery doggerel. They are of one of the oldest and most repeated rhymes which run through the cradle stage. They have long been adapted to a well-known game, which game is represented in the delightful painting by Sheridan Knowles, R.C.A., showing a group of joyous youngsters in the delight of "chop, chop,

chopping off the last man's head." Messrs. Wright, Layman & Umney, Limited, have had this delightful picture faithfully reproduced in all its charming colouration, and are presenting it to members of the public who send 24 wrappers from 4d. tablets of Wright's Coal Tar Soap with 6d. to cover packing and postage. It is entirely free from advertising matter, and the distribution is being widely made known through the public press.—*British and Colonial Druggist*, May 29.

CEREGEN

PROTEID-PHOSPHATE NERVE FOOD.

USED IN THE ROYAL NAVAL HOSPITALS.

	COST			TURNOVER			PROFIT		
1 dozen Tins	£	s.	d.	£	s.	d.	£	s.	d.
1/3 size ...	0	8	4	0	15	0	0	6	8
2/- " ...	0	13	2	1	4	0	0	10	10
3/6 " ...	0	19	6	2	2	0	1	2	6
6/6 " ...	1	15	2	3	18	0	2	2	10
	<u>£3 16 2</u>			<u>£7 19 0</u>			<u>£4 2 10</u>		

£4·2·10 PROFIT ON £3·16·2 IS GOOD!!

JOHN BELL, HILLS & LUCAS, LTD., "Oxford Works," Tower Bridge Road, LONDON, S.E.

DISINFECTANTS

Supplied in Fluid and Powder Form. With guarantee of Tar Acids or Co-efficiency.

LIQUID SHEEP DIP

Paste and Block Form also supplied. All approved for Sheep Scab.

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